



# Technical Data Sheet (TDS)



**GRANULE  
MORVARID  
YAZD Co.**



**MORVARID  
BASPAR  
JAM Co.**

THERMOPLASTIC  
COMPOUNDS  
MANUFACTURER  
HDPE, LDPE, LLDPE, PP, ABS



 [WWW.GMY.CO.IR](http://WWW.GMY.CO.IR)



گرانول مروارید یزد  
GRANULE MORVARID YAZD Co.



مروارید بسپار جم  
MORVARID BASPAR JAM CO.



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## We offer

 POLYOLEFINE THERMOPLASTIC COMPOUNDS  
HDPE      LDPE      LLDPE      PP      ABS

## For producing

 PIPE, FILM, SHEET, PARTS, TANKS, JERRYCAN  
STRAP, RAFFIA, CUPS, NET, HOME APPLIANCE

 CUSTOM FORMULATION

 STABLE PROPERTIES

**We appreciate your inquiry, if any.**



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HIGH DENSITY POLYETHYLENE COMPOUND FOR EXTRUSION / PIPE



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**HDPE POLYETHYLENE**

**GM-IP100-PLUS**

●Typical Application & Characteristics:

**GM-IP100-PLUS** Is black high density polyethylene compound , for the extrusion process .Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-IP100-PLUS
Grade	HDPE Polyethylene
Application	Extrusion Process /Pipe
Color	Black

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI(190 °C- 5kg)	gr/10min	ISO 1133	0.25±0.02
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
OIT	Min	ISO11357_6	≥20
Elongation at Break	%	ISO 527	≥700
Tensile Stress at Yield	MPA	ISO 527	≥20
Carbon Content	%	ISO6964	2.2 ± 0.2

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**HDPE POLYETHYLENE**

**GM-IP100-B**

●Typical Application & Characteristics:

**GM-IP100-B** Is black high density polyethylene compound , for the extrusion process .Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-IP100-B
Grade	HDPE Polyethylene
Application	Extrusion Process /Pipe
Color	Black

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI(190 °C- 5kg)	gr/10min	ISO 1133	0.25±0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
OIT	Min	ISO11357_6	≥20
Elongation	%	ISO 527	≥700
Tensile Stress at Yield	MPA	ISO 527	≥20
Carbon Content	%	ISO6964	2.2 ± 0.2

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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**HDPE POLYETHYLENE**

**GM-IP100-BL**

●Typical Application & Characteristics:

**GM-IP100-BL** Is blue high density polyethylene compound , for the extrusion process .Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-IP100-BL
Grade	HDPE Polyethylene
Application	Extrusion Process /Pipe
Color	Blue

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI(190 °C- 5kg)	gr/10min	ISO 1133	0.25± 0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
OIT	Min	ISO11357_6	≥20
Elongation at Break	%	ISO 527	≥700
Tensile Stress at Yield	MPA	ISO 527	≥20

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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## HDPE POLYETHYLENE

## GM-IP100-Y

### •Typical Application & Characteristics:

**GM-IP100-Y** Is yellow high density polyethylene compound ,for the extrusion process .Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-IP100-Y
Grade	HDPE Polyethylene
Application	Extrusion Process /Pipe
Color	Yellow

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI(190 °C- 5kg)	gr/10min	ISO 1133	0.25± 0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
OIT	Min	ISO11357_6	≥20
Elongation at Break	%	ISO 527	≥700
Tensile Stress At Yield	MPA	ISO 527	≥20

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

## HDPE POLYETHYLENE

## GM-IP-EX3

### ● Typical Application & Characteristics:

**GM-IP-EX3** Is black high density polyethylene compound , for the extrusion process .Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-IP-EX3
Grade	HDPE Polyethylene
Application	Extrusion Process
Color	Black

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI(190 °C- 5kg)	gr/10min	ISO 1133	0.5 ± 0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
OIT	Min	ISO11357_6	≥20
Elongation at Break	%	ISO 527	≥700
Carbon Content	%	ISO6964	2.2 ± 0.2

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

## HDPE POLYETHYLENE

## GM-TB100-EX3

### ●Typical Application & Characteristics:

**GM-TB100-EX3** Is black high density polyethylene compound, for the extrusion process. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-TB100-EX3
Grade	HDPE Polyethylene
Applications	Extrusion Process
Color	Black

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C-5kg)	gr/10min	ISO 1133	0.35 ± 0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.950 ± 0.005
Dispersion	—	ISO 18553	≤3
OIT	Min	ISO11357_6	≥20
Elongation at Break	%	ISO 527	≥700
Carbon Content	%	ISO 6964	2.2 ± 0.2

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
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## HDPE POLYETHYLENE

## GM-TB-EX3

• Typical Application & Characteristics:

**GM-TB-EX3** Is black high density polyethylene compound, for the extrusion process. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-TB-EX3
Grade	HDPE Polyethylene
Applications	Extrusion Process
Color	Black

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C-5kg)	gr/10min	ISO 1133	0.45±0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.945 ± 0.005
Dispersion	—	ISO 18553	≤3
OIT	Min	ISO11357_6	≥20
Elongation at Break	%	ISO 527	≥700
Carbon Content	%	ISO 6964	2.2 ± 0.2

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**HDPE POLYETHYLENE**

**GM-RE50**

●Typical Application & Characteristics:

**GM-RE50** Is black high density polyethylene compound, for the extrusion process. Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-RE50
Grade	HDPE Polyethylene
Applications	Extrusion Process
Color	Black

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C-5kg)	gr/10min	ISO 1133	0.8±0.1
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
Dispersion	—	ISO 18553	≤3
Carbon Content	%	ISO 6964	2.2± 0.2

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

## HDPE POLYETHYLENE

## GM-RE40

### ●Typical Application & Characteristics:

**GM-RE40** Is black high density polyethylene compound, for the extrusion process. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-RE40
Grade	HDPE Polyethylene
Applications	Extrusion Process
Color	Black

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C-5kg)	gr/10min	ISO 1133	1±0.1
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
Dispersion	—	ISO 18553	≤3
Carbon Content	%	ISO 6964	2.2± 0.2

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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کامپاند پلی اتیلن سنگین و متوسط برای قالب گیری دورانی

MEDIUM /HIGH DENSITY POLYETHYLENE COMPOUND FOR ROTATIONAL MOLDING



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**MD/HDPE POLYETHYLENE**

**GM-RMD-3840-M010**

●Typical Application & Characteristics:

**GM-RMD-3840-M010** Is natural polyethylene compound for rotational molding application. Suitability for use in any application should be determined by appropriate performance testing.(in powder and granule forms.)

**Product Description**

ITEM CODE	GM-RMD-3840-M010
Grade	MD/HDPE Polyethylene
Application	Rotational Molding
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16 kg)	gr/10min	ISO 1133	3.5±0.2
Density	gr/cm <sup>3</sup>	ISO 1183	0.930 ± 0.005
Elongation	%	ASTM D-638	900
Tensile Stress at Yield	MPA	ASTM D-638	15±2
Vicat Softening Point	°c	ASTM D-1525	115

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
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COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**MD/HDPE POLYETHYLENE**

**GM-RMD-3840-M011**

●Typical Application & Characteristics:

**GM-RMD-3840-M011** Is white polyethylene compound for rotational molding application. Suitability for use in any application should be determined by appropriate performance testing. .(in powder and granule forms.)

**Product Description**

ITEM CODE	GM-RMD-3840-M011
Grade	MD/HDPE Polyethylene
Application	Rotational Molding
Color	White

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16 kg)	gr/10min	ISO 1133	3.5±0.5
Density	gr/cm <sup>3</sup>	ISO 1183	0.938 ± 0.002
Elongation	%	ASTM D-638	900
Tensile Stress at Yield	MPA	ASTM D-638	15±2
Vicat Softening Point	°c	ASTM D-1525	115

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
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**MD/HDPE POLYETHYLENE**

**GM-RMD-3840-M014**

● Typical Application & Characteristics:

**GM-RMD-3840-M014** Is blue polyethylene compound for rotational molding application. Suitability for use in any application should be determined by appropriate performance testing. (in powder and granule forms.)

**Product Description**

ITEM CODE	GM-RMD-3840-M014
Grade	MD/HDPE Polyethylene
Application	Rotational Molding
Color	Blue

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16 kg)	gr/10min	ISO 1133	3.5±0.5
Density	gr/cm <sup>3</sup>	ISO 1183	0.935 ± 0.005
Elongation	%	ASTM D-638	900
Tensile Stress At Yield	MPA	ASTM D-638	15±2
Vicat Softening Point	°c	ASTM D-1525	115

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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کامپاند پلی اتیلن برای قالب گیری تزریقی بادی

HIGH DENSITY POLYETHYLENE COMPOUND FOR BLOW MOLDING



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

## HDPE POLYETHYLENE

## GM-BML-F010

### ●Typical Application & Characteristics:

**GM-BML-F010** Is high density polyethylene compound for blow molding application. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-BML-F010
Grade	HDPE Polyethylene
Application	Blow Molding
Color	Natural

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 5 kg)	gr/10min	ISO 1133	1.2 ±0.2
Density	gr/cm <sup>3</sup>	ISO 1183	0.950 ± 0.005
Impact Strength(23 °C)	Mj/mm <sup>2</sup>	ISO 179/1eA	9-11

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**HDPE POLYETHYLENE**

**GM-BML-F013**

●Typical Application & Characteristics:

**GM-BML-F013** Is yellow high density polyethylene compound for blow molding application. Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-BML-F013
Grade	High Density Polyethylene
Applications	Blow Molding
Color	Yellow

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C-5kg)	gr/10min	ISO 1133	1.2 ± 0.1
Density	gr/cm <sup>3</sup>	ISO 1183	0.950 ± 0.005
Impact Strength(23 °C)	Mj/mm <sup>2</sup>	ISO 179/1eA	9-11

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**HDPE POLYETHYLENE**

**GM-BML-F016**

●Typical Application & Characteristics:

**GM-BML-F016** Is high density polyethylene compound for blow molding application. Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-BML-F016
Grade	HDPE Polyethylene
Application	Blow Molding
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 5 kg)	gr/10min	ISO 1133	0.45 ±0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
Tensile Modulus of Elasticity	MPA	ISO 527	1000
Elongation at Break	%	ISO 527	≥700
Tensile Stress at Yield	MPA	ISO 527	25 ± 2

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

کامپاند پلی اتیلن برای قالب گیری تزریقی

HIGH DENSITY POLYETHYLENE COMPOUND FOR INJECTION MOLDING



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**HDPE POLYETHYLENE**

**GM-INJ-B010**

●Typical Application & Characteristics:

**GM-INJ-B010** Is high density polyethylene compound for injection-molding application. Suitability for use in any application should be determined by appropriate performance testing. (Available in Customized Colors)

**Product Description**

ITEM CODE	GM-INJ-B010
Grade	HDPE Polyethylene
Application	Injection Molding
Color	Blue

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16kg)	gr/10min	ISO 1133	8 ± 1
Density	gr/cm <sup>3</sup>	ISO 1183	0.950 ± 0.005
Notched Izod Impact	J/m	ASTM D256/A	25

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**HDPE POLYETHYLENE**

**GM-INJ-B014**

●Typical Application & Characteristics:

**GM-INJ-B014** Is natural Is high density polyethylene compound for injection-molding application. Suitability for use in any application should be determined by appropriate performance testing. (Available in Customized Colors)

**Product Description**

ITEM CODE	GM-INJ-B014
Grade	HDPE Polyethylene
Application	Injection Molding
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16kg)	gr/10min	ISO 1133	8±1
Density	gr/cm <sup>3</sup>	ISO 1183	0.955 ± 0.005
Notched Izod Impact	J/m	ASTM D256/A	25

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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Granule Morvarid Yazd Co. ISO: 9001 -2015 certified

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کامپاند پلی اتیلن سبک و سبک خطی برای فیلم های دمشی سبک (نایلون)

LOW DENSITY& LINEAR LOW DENSITY POLYETHYLENE COMPOUND FOR BLOWN FILM



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**LLDPE POLYETHYLENE**

**GM-FST-T013(1)**

● Typical Application & Characteristics:

**GM-FST-T013(1)** is film grade compound based on the linear low density polyethylene (LLDPE). This grade offers easy process ability, very versatile of general-purpose films, packaging films. Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-FST-T013(1)
Grade	LLDPE Polyethylene
Application	Blown Film
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16kg)	gr/10min	ISO 1133	0.8 ± 0.1
Density	gr/cm <sup>3</sup>	ISO 1183	0.920±0.005
Elongation at Break	%	ISO 527	≥700
Tensile Strength at Break	MPa	ISO 527	11±2

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**LLDPE POLYETHYLENE**

**GM-FST-T013(2)**

● Typical Application & Characteristics:

**GM- FST-T013(2)** Is film grade compound based on the linear low density polyethylene (LLDPE) . This grade offers easy process ability, very versatile of general-purpose films ,packaging films. Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-FST-T013(2)
Grade	LLDPE Polyethylene
Application	Blown Film
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16kg)	gr/10min	ISO 1133	1.6±0.2
Density	gr/cm <sup>3</sup>	ISO 1183	0.920±0.005
Elongation at Break	%	ISO 527	≥700
Tensile Stress at Yield	MPA	ISO 527	11±2

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

Granule Morvarid Yazd Co. ISO: 9001-2015 certified  
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**LDPE POLYETHYLENE**

**GM-FSH-T014(1)**

●Typical Application & Characteristics:

**GM-FSH-T014(1)** Is film grade compound based on the low density polyethylene (LDPE) .This grade offers easy process ability , very versatile of general-purpose films, shrink films, packaging films.Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-FSH-T014 (1)
Grade	LDPE Polyethylene
Application	Blown Film
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16kg)	gr/10min	ISO 1133	1±0.2
Density	gr/cm <sup>3</sup>	ISO 1183	0.920±0.005
Elongation at Break	%	ISO 527	≥700
Tensile Stress at Yield	MPA	ISO 527	11±2
Vicat Softening Point	°c	ASTM D-1525	93

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

Granule Morvarid Yazd Co. ISO: 9001-2015 certified  
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**LDPE POLYETHYLENE**

**GM-FSH-T014(2)**

● Typical Application & Characteristics:

**GM-FSH-T014(2)** Is film grade compound based on the low density polyethylene (LDPE). This grade offers easy process ability, very versatile of general-purpose films, shrink films, packaging films. Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-FSH-T014 (2)
Grade	LDPE Polyethylene
Application	Blown Film
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 2.16kg)	gr/10min	ISO 1133	1.6±0.2
Density	gr/cm <sup>3</sup>	ISO 1183	0.920±0.005
Elongation at Break	%	ISO 527	≥700
Tensile Stress at Yield	MPA	ISO 527	11±2
Vicat Softening Point	°c	ASTM D-1525	93

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
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کامپاند پلی اتیلن سنگین برای فیلم های دمشی سنگین ( نایلکس )

HIGH DENSITY POLYETHYLEN COMPOUND FOR BLOWN FILM



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

## HDPE POLYETHYLENE

## GM-FHP-C010

### • Typical Application & Characteristics:

**GM-FHP-C010** Is film grade compound based on the high density polyethylene (HDPE). This grade offers easy process ability, very versatile of general-purpose films, packaging films. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-FHP-C010
Grade	HDPE Polyethylene
Application	Blown Film
Color	Natural

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 5kg)	gr/10min	ISO 1133	0.4±0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.945±0.005
Elongation at Break	%	ISO 527	≥700
Tensile Stress at Yield	MPa	ISO 527	≥20
Tensile Strain-MD	MPa	ISO 527	55

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

Granule Morvarid Yazd Co. ISO: 9001-2015 certified  
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

## HDPE POLYETHYLENE

## GM-FHP-C011

### Typical Application& Characteristics:

**GM-FHP-C011** Is film grade compound based on the high density polyethylene (HDPE). This grade offers easy process ability, very versatile of general-purpose films, packaging films. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-FHP-C011
Grade	HDPE Polyethylene
Application	Blown Film
Color	Natural

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 5kg)	gr/10min	ISO 1133	0.25±0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.945±0.005
Elongation at Break	%	ISO 527	≥700
Tensile strength at Yield	MPA	ISO 527	≥20
Vicat Softening Temperature	°C	ISO 306	124

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

## HDPE POLYETHYLENE

## GM-FHP-C014

### •Typical Application & Characteristics:

**GM-FHP-C014** Is film grade compound based on the high density polyethylene (HDPE). This grade offers easy process ability, very versatile of general-purpose films ,packaging films. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-FHP-C014
Grade	HDPE Polyethylene
Application	Blown Film
Color	Yellow

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI (190 °C- 5kg)	gr/10min	ISO 1133	0.4±0.05
Density	gr/cm <sup>3</sup>	ISO 1183	0.945±0.005
Elongation	%	ISO 527	≥700
Tensile strength at Yield	M	ISO 527	≥20

### Remarks

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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کامپاند پلی پروپیلن (هوموپلیمر) برای ظروف /تسمه /ورق /فیلم /الیاف

POLYPROPYLENE HOMOPOLYMER COMPOUND FOR HOME APPLIANCE/STRAP/FILM/SHEETS/FILAMENT



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMH-1515M**

● Typical Application & Characteristics:

**GMH-1515M** is a polypropylene homopolymer particularly suited for the extrusion of cast and water quenched blown film. It contains antioxidant, anti-block and PPA additives.

**Product Description**

ITEM CODE	GMH-1515M
Grade	A Homo-polymer
Application	Drinking straws, Cast and blown films, Injection molding
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	9 ± 2
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1450
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 34
Elongation at Yield (50mm/min)	%	ASTM D638	~ 12
Notches Izod Impact	J/m	ASTM D256	~ 40
Vicat Softening Point	°C	ASTM D1525	~ 150
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 115

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMH-1515MF**

●Typical Application & Characteristics:

**GMH-1515MF** is a polypropylene homopolymer particularly suited for the extrusion of cast and water quenched blown film. It contains antioxidant, slip agent, anti-block and PPA additives.

**Product Description**

ITEM CODE	GMH-1515MF
Grade	A Homo-polymer
Application	Drinking straws, Cast and blown films
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	9 ± 2
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1450
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 34
Elongation at Yield (50mm/min)	%	ASTM D638	~ 12
Notches Izod Impact	J/m	ASTM D256	~ 40
Vicat Softening Point	°C	ASTM D1525	~ 150
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 115

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMH-1550J**

● Typical Application & Characteristics:

**GMH-1550J** is a polypropylene homopolymer for extrusion of sheets for thermoforming, film yarn and monofilament. It contains antioxidant and PPA additives.

**Product Description**

ITEM CODE	GMH-1550J
Grade	A Homo-polymer
Application	Heavy duty bags, Mono-filaments net, Extrusion of sheets
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	3.5 ± 0.5
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1450
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 32
Elongation at Yield (50mm/min)	%	ASTM D638	~ 10
Notches Izod Impact	J/m	ASTM D256	~ 50
Vicat Softening Point	°C	ASTM D1525	~ 150
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 90

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMH-1552R**

● **Typical Application & Characteristics:**

**GMH-1552R** is a polypropylene homopolymer fiber grade characterized by high flowability. It contains anti-gas fading and PPA additives.

**Product Description**

ITEM CODE	GMH-1552R
Grade	A Homo-polymer
Application	Bulk continuous filament for carpets, Nonwoven fabrics
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	25 ± 3
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1450
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 32
Elongation at Yield (50mm/min)	%	ASTM D638	~ 13
Notches Izod Impact	J/m	ASTM D256	~ 30
Vicat Softening Point	°C	ASTM D1525	~ 150
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 95

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMH-1565R**

● Typical Application & Characteristics:

**GMH-1565R** is a polypropylene homopolymer fiber grade characterized by high flowability. It contains anti-gas fading and PPA additives. It is a Controlled Rheology Polypropylene grade (CRPP).

**Product Description**

ITEM CODE	GMH-1565R
Grade	A Homo-polymer
Application	Bulk continuous filament for carpets, Nonwoven fabrics
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	25 ± 3
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1450
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 32
Elongation at Yield (50mm/min)	%	ASTM D638	~ 13
Notches Izod Impact	J/m	ASTM D256	~ 30
Vicat Softening Point	°C	ASTM D1525	~ 150
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 95

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

کامپاند پلی پروپیلن (رندوم کوپلیمر) برای ورق/لوله های آب شرب/لوله های سرمایشی و گرمایشی

POLYPROPYLENE RANDOM COPOLYMER COMPOUND FOR SHEETS/DRINKING WATER PIPE/PLUMBING:HEATING&COOLING



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMBR-23230C**

● Typical Application & Characteristics:

**GMBR-23230C** is a compound from random and high-impact copolymer used for sheet and pipe extrusion with high efficiency.

**Product Description**

ITEM CODE	GMBR-23230C
Grade	A Random and High-impact copolymers compound
Application	Drinking water pipe, Plumbing: Heating & Cooling, Though sheets
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	0.4 ± 0.05
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1000
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 25
Elongation at Yield (50mm/min)	%	ASTM D638	~ 15
Notches Izod Impact	J/m	ASTM D256	> 450
Vicat Softening Point	°C	ASTM D1525	~ 125
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 70

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

کامپاند پلی پروپیلن (بلوک کوپلیمر) برای ورق/لوله

POLYPROPYLENE HIGH IMPACT COPOLYMER COMPOUND FOR SHEETS /PIPES



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMB-3332D**

●Typical Application & Characteristics:

**GMB-3332D** is high-impact copolymer grade with high molecular weight and therefore mainly used for extrusion. It is typically used for non-pressure pipes and sheet applications.

**Product Description**

ITEM CODE	GMB-3332D
Grade	High-impact Polypropylene
Application	Pipe Fittings, Sanitary Pipes, Carton Plast
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	0.65 ± 0.1
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1100
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 24
Elongation at Yield (50mm/min)	%	ASTM D638	~ 5
Tensile Strength at Break (50mm/min)	MPa	ASTM D638	~ 16
Elongation at Break (50mm/min)	%	ASTM D638	> 200
Notches Izod Impact	J/m	ASTM D256	> 500
Vicat Softening Point	°C	ASTM D1525	~ 145
Deflection Temperature Under Load,(0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 95

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMB-3440G**

● Typical Application & Characteristics:

**GMB-3440G** is high-impact copolymer grade with high molecular weight and therefore mainly used for extrusion. It is typically used for non-pressure pipes and sheet applications.

**Product Description**

ITEM CODE	GMB-3440G
Grade	High-impact Polypropylene
Application	Pipe Fittings, Sanitary Pipes, Carton Plast
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	1.4 ± 0.3
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1300
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 26
Elongation at Yield (50mm/min)	%	ASTM D638	~ 13
Notches Izod Impact	J/m	ASTM D256	> 500
Vicat Softening Point	°C	ASTM D1525	~ 145
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 80

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
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**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMB-3532C**

• Typical Application & Characteristics:

**GMB-3532C** is high-impact copolymer grade with high molecular weight and therefore mainly used for extrusion. It is typically used for non-pressure pipes and sheet applications.

**Product Description**

ITEM CODE	GMB-3532C
Grade	High-impact Polypropylene
Application	Pipe Fittings, Sanitary Pipes, Carton Plast
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	0.4 ± 0.1
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~1300
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~24
Elongation at Yield (50mm/min)	%	ASTM D638	~13
Notches Izod Impact	J/m	ASTM D256	> 500
Vicat Softening Point	°C	ASTM D1525	~145
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~80

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMB-3532D**

●Typical Application & Characteristics:

**GMB-3532D** is high-impact copolymer grade with high molecular weight and therefore mainly used for extrusion. It is typically used for non-pressure pipes and sheet applications.

**Product Description**

ITEM CODE	GMB-3532D
Grade	High-impact Polypropylene
Application	Pipe Fittings, Sanitary Pipes, Carton Plast
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	0.8 ± 0.2
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1300
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 26
Elongation at Yield (50mm/min)	%	ASTM D638	~ 13
Notches Izod Impact	J/m	ASTM D256	> 500
Vicat Softening Point	°C	ASTM D1525	~ 145
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 80

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C. GMY Co. do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
- Typical values: not to be construed as specification limits.
- Technical Disclaimer: The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

کامپاند پلی پروپیلن (هوموپلیمر) گرید ویژه برای الیاف فرش

POLYPROPYLENE HOMOPOLYMER COMPOUND FOR WOVEN FABRICS IN CARPET BACKING



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**POLYPROPYLENE COMPOUND**

**GMH-034-SC**

•Typical Application & Characteristics:

**GMH-034-SC** is a compound of homopolymer polypropylene with special performance polymer from ExxonMobil, mainly used for extrusion raffia for woven fabrics in carpet backing industries. It contains antioxidant and PPA additives.

**Product Description**

ITEM CODE	GMH-034-SC
Grade	A Compound
Application	woven fabrics in carpet backing
Color	Natural

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI (230°C, 2.16kg)	g/10min	ASTM D1238	3.5 ± 1
Density	g/cm <sup>3</sup>	ASTM D792	0.900 ± 0.005
Flexural Modulus	MPa	ASTM D790	~ 1550
Tensile Strength at Yield (50mm/min)	MPa	ASTM D638	~ 25
Elongation at Yield (50mm/min)	%	ASTM D638	~ 7
Tensile Strength at Break (50mm/min)	MPa	ASTM D638	~ 28
Elongation at Break (50mm/min)	%	ASTM D638	> 100
Notches Izod Impact	J/m	ASTM D256	~ 150
Vicat Softening Point	°C	ASTM D1525	~ 145
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	°C	ASTM D648	~ 95

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
- Storage: In manner to prevent of a direct exposure of sunlight or heat the storage area should be dry and preferably don't exceed 50 °C.GMY Co.do not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.
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کامپاند ABS برای قالب گیری تزریقی  
ABS COMPOUND FOR INJECTION MOLDING



**GRANULE MORVARID YAZD**  
COMPOUNDING & REPROCESSING of PLASTIC MATERIALS

**ACRILONITRILE BUTADIENE STYRENE**

**GM-ABS-311**

• Typical Application & Characteristics:

**GM-ABS-311** (white colored high gloss) is one of the styrenic polymer (ABS) compound grades with improved toughness.

This grade is widely used in general injection molding. Suitability for use in any application should be determined by appropriate performance testing.

**Product Description**

ITEM CODE	GM-ABS-311
Grade	ABS
Application	Injection molding / Parts
Color	White

**Typical Data**

TEST ITEM	UNIT	METHOD	VALUE
MFI(200 °C- 5 kg)	gr/10min	ISO 1133	~3.1
Density	gr/cm <sup>3</sup>	ISO 1183	~600
Izod Impact Strength (Notched) (@23±2°C & Humidity: 50±5%)	KJ/M <sup>2</sup>	ASTM D-256	~20
Vicat Softening Point (50N Load & 50°C/HR)	°C	ASTM D-1525	~95
Tensile Strength at Yield	Kgf/cm <sup>2</sup>	ASTM D-638	~440
Tensile Strength at Break	Kgf/cm <sup>2</sup>	ASTM D-638	~380
Elongation at Yield	%	ASTM D-638	~3
Elongation at Break	%	ASTM D-638	~39
Flexural Strength at Yield	Kgf/cm <sup>2</sup>	ASTM D-790	~620
Flexural Modulus	Kgf/cm <sup>2</sup>	ASTM D-790	~21000
HDT(0.45 MPA & 120°C/HR)	°C	ASTM D-648	~77
Rockwell Hardness(AT 23 °C)	—	ASTM D-785	~109 R SCALE
Flammability	—	UL94	HB
Shrinkage	%	ASTM D-955	~0.5

**Remarks**

- Package: Plastic Bags 25 ± 0.1 Kg
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گرانول مروارید یزد  
GRANULE MORVARID YAZD Co.



مروارید بسپار جم  
MORVARID BASPAR JAM CO.

## YOU ASK US ABOUT : POLYOLEFINE THERMOPLASTIC COMPOUNDS.

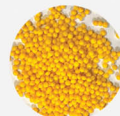
POLYMER BASE	APPLICATION
HIGH-DENSITY POLYETHYLENE (HDPE)	EXTRUSION PIPE SERIES BLOWN FILM SERIES BLOW MOLDING SERIES INJECTION MOLDING SERIES ROTATIONAL MOLDING SERIES
LOW- DENSITY POLYETHYLENE (LDPE)	BLOWN FILM SERIES
LINEAR LOW-DENSITY POLYETHYLENE (LLDPE)	BLOWN FILM SERIES
POLYPROPYLENE	HOME APPLIANCE/STRAP/FILM/SHEETS
ABS	INJECTION MOLDING

**Your inquiry are most welcome**

ISO 14001:2015, ISO 45001:2018, ISO 9001:2015 - ELQM



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گرانول مروارید یزد

GRANULE MORVARID YAZD Co.



مروارید بسپار جم

MORVARID BASPAR JAM Co.

ISO 14001 : 2015, ISO 45001:2018, ISO 9001:2015 - ELQM

W W W . G M Y . C O . I R

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