



# Technical Data Sheet (TDS)



GRANULE  
MORVARID  
YAZD Co.



MORVARID  
BASPAR  
JAM Co.

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

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





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.**



Mubarakeh Industrial Area,  
TAFT - YAZD - IRAN



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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.
- 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-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.
- 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.



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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.
- Typical values: not to be construed as specification limits.
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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.
- 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.



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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.
- Typical values: not to be construed as specification limits.
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## 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

<b>ITEM CODE</b>	<b>GM-TB100-EX3</b>
<b>Grade</b>	HDPE Polyethylene
<b>Applications</b>	Extrusion Process
<b>Color</b>	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

<b>ITEM CODE</b>	<b>GM-TB-EX3</b>
<b>Grade</b>	HDPE Polyethylene
<b>Applications</b>	Extrusion Process
<b>Color</b>	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.
- Typical values: not to be construed as specification limits.
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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.
- Typical values: not to be construed as specification limits.
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**GRANULE MORVARID YAZD**  
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.
- 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 سنتین 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.
- 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

**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**

<b>ITEM CODE</b>	<b>GM-RMD-3840-M011</b>
<b>Grade</b>	MD/HDPE Polyethylene
<b>Application</b>	Rotational Molding
<b>Color</b>	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.
- 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

**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.
- 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 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.
- 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-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.
- 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-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.

کامپاund 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

<b>ITEM CODE</b>	<b>GM-INJ-B010</b>
<b>Grade</b>	HDPE Polyethylene
<b>Application</b>	Injection Molding
<b>Color</b>	Blue

### Typical Data

<b>TEST ITEM</b>	<b>UNIT</b>	<b>METHOD</b>	<b>VALUE</b>
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.
- 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-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

<b>ITEM CODE</b>	<b>GM-INJ-B014</b>
<b>Grade</b>	HDPE Polyethylene
<b>Application</b>	Injection Molding
<b>Color</b>	Natural

### Typical Data

<b>TEST ITEM</b>	<b>UNIT</b>	<b>METHOD</b>	<b>VALUE</b>
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.
- 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 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**  
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**  
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.
- 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 سنتیشن برای فیلم های دمشی سنتیشن (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 processability, 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**  
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

<b>ITEM CODE</b>	<b>GM-FHP-C011</b>
<b>Grade</b>	HDPE Polyethylene
<b>Application</b>	Blown Film
<b>Color</b>	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**

<b>ITEM CODE</b>	<b>GM-FHP-C014</b>
<b>Grade</b>	HDPE Polyethylene
<b>Application</b>	Blown Film
<b>Color</b>	Yellow

**Typical Data**

<b>TEST ITEM</b>	<b>UNIT</b>	<b>METHOD</b>	<b>VALUE</b>
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.
- 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 برای ظروف/تسمهه/ورق/فیلم  
POLYPROPYLENE COMPOUND FOR HOME APPLIANCE/STRAP/FILM/SHEETS



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

## POLYPROPYLENE COMPOUND

**GM-HPP-R101**

●Typical Application & Characteristics:

**GM-HPP-R101** is homopolymer grade with medium molecular weight and outstanding mechanical properties. Suitability for use in any application should be determined by appropriate performance testing.

### Product Description

ITEM CODE	GM-HPP-R101
Grade	POLYPROPYLENE
Application	Sheets/Cups/Film/Parts/Strap/Brush/Net
Color	Customized Color

### Typical Data

TEST ITEM	UNIT	METHOD	VALUE
MFI(230 °C- 2.16kg)	gr/10min	ISO 1133	2.5 ± 0.5
Density	gr/cm <sup>3</sup>	ISO 1183	0.900 ± 0.005
Tensile Strength at Yield (50mm/min)	MPA	ISO 527	~32
Elongation at Yield (50mm/min)	%	ISO 527	~10
Melting Point(DSC)	°C	ISO11357-1	~163

### 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 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
- 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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گرانول مروارید یزد  
GRANULE MORVARID YAZD Co.



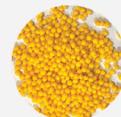
## مروارید بسپار جم MORVARID BASPAR JAM CO.

**YOU ASK US ABOUT : POLYOLEFINE THERMOPLASTIC COMPOUNDS.**

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

Your inquiry are most welcome

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



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



گرانول مروارید یزد  
GRANULE MORVARID YAZD Co.  
ISO 14001 : 2015, ISO 45001:2018, ISO 9001:2015 - ELQM



مروارید بسپار جم  
MORVARID BASPAR JAM Co.

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



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