

LDPE	LLDPE	MDPE	HDPE	PP	PVC	GPPS	HIPS	EPS	PET	ABS	SBR	PBR	PC	E.P.
------	-------	------	------	----	-----	------	------	-----	-----	-----	-----	-----	----	------



HI0500

1) Product Description:

HI0500 is a natural high density polyethylene (HDPE) injection molding grade which combines high stiffness with good physical properties.

2) Applications:

- Crates
- Industrial parts
- Thick wall parts

3) Typical data

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23 ⁰ C)	ASTM D 1505	g/cm ³	0.963-0.967
Melt Flow Rate (190 ⁰ C/2.16 kg)	ASTM D1238	g/10min	4-6
Ash content	ASTM D 1063	wt%	0.06 max
Volatile matter	ASTM D 1960	wt%	0.05 max.
Tensile strength @ break	ASTM D 638	gr/cm ²	170 min
Elongation @ break	ASTM D 638	%	300 min
Melting point	ASTM D 2117	°C	130
Vicat softening point	ASTM D 1525	°C	124
ESCR	ASTM D 1693	hr	4

This data are typical values and are not to be construed as product specifications.

4) Process conditions:

HI0500 can be processed in most types of injection moulding equipment.

Producer: Bandar Imam Petrochemical Co.

Packing: 25 Kg plastic bag



Tabriz Petrochemical Company

Address :

Azarshahr Road , Next
to the tabriz Refinery
Tabriz , Iran

Po. BOX: 51745 - 354

Tel: [+98(0)411]4280000

FAX:

Tel: [+98(0)411]4201487

HD 4440EA High Density polyethylene

- Product Description

- HD-4440EA is a high density polyethylene copolymers containing butane-1 as the comonomer with narrow molecular weight distribution. It is for extrusion of silane crosslinked pipes (PE-Xb).

- Applications

- Hot water pipes
- Cold water pipe

- Typical data

Property	Test Method	Unit	Typical Value
Physical Properties			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10Min	4.0
MFI(190°C / 5.0Kg)			-
Density	ASTM D 1505	gr/cm ³	0.944
Formulation			
Anti Oxidant		√	
UV Stabilizer			
Mechanical Properties			
Flexural Modulus	ASTM D 790	MPa	900
Tensile Strength at yield	ASTM D 638	MPa	18
Elongation at Break	ASTM D 638	%	900
Charpy Impact Strength	ASTM D 256	Kj/m ²	5
Hardness Shore D	ASTM D 2240	-	62
ESCR, F50, 10% Igepal,	ASTM D1894	hr	18
Thermal Properties			
Vicat Softening Temperature	ASTM D 1525	°C	117
Melting Point	ASTM D2117	°C	130



Tabriz Petrochemical Company

Address :

Azarshahr Road , Next
to the tabriz Refinery
Tabriz , Iran

Po. BOX: 51745 - 354

Tel: [+98(0)411]4280000

FAX:

Tel: [+98(0)411]4201487

HD -5218UA
High Density polyethylene

- Product Description

- HD-5218UA is a high density polyethylene copolymers containing butane-1 as the co-monomer with narrow molecular weight distribution, suitable for thin wall injection application. It has been designed for fast cycling application and low warpage with a good balance of toughness and stiffness characteristics.

- Applications

- Houseware
- Thin walled containers
- Food container
- Toys
- Home utensil

- Typical Data

Property	Test Method	Unit	Typical Value
Physical Properties			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10Min	18.0
MFI(190°C / 5.0Kg)			52.0
Density	ASTM D 1505	gr/cm ³	0.952
Formulation			
Anti Oxidant			√
Slip Agent			-
UV Stabilizer			√
Mechanical Properties			
Flexural Modulus	ASTM D 790	MPa	1050
Tensile Strength at yield	ASTM D 638	MPa	20
Elongation at Break	ASTM D 638	%	900
Charpy Impact Strength	ASTM D 256	Kj/m ²	3
Hardness Shore D	ASTM D 2240	-	65
Thermal Properties			
Vicat Softening Temperature	ASTM D 1525	°C	115
Melting Point	ASTM D2117	°C	131



Tabriz Petrochemical Company

Address :

Azarshahr Road , Next
to the Tabriz Refinery
Tabriz , Iran

Po. BOX: 51745 - 354

Tel: [+98(0)411]4280000

FAX:

Tel: [+98(0)411]4201487

HD -6040 UA High Density polyethylene

- Product Description

- HD-6040UA is an ultra-violet light stabilized high density polyethylene injection grade with a narrow molecular weight distribution, specially developed for injection moulding of heavy duty parts for outdoor application. Articles produced from this grade exhibit excellent impact strength and stiffness, low warpage, good weathering resistance.

- Applications

- Pallet
- Technical parts
- Large dustbins and pails
- Shipping container
- Fish crates
- Storing cases

- Typical Data

Property	Test Method	Unit	Typical Value
Physical Properties			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10Min	3.6
MFI(190°C / 5.0Kg)			-
Density	ASTM D 1505	gr/cm ³	0.960
Formulation			
Anti Oxidant			√
UV Stabilizer			√
Mechanical Properties			
Flexural Modulus	ASTM D 790	MPa	1250
Tensile Strength at yield	ASTM D 638	MPa	31
Elongation at Break	ASTM D 638	%	1000
Charpy Impact Strength	ASTM D 256	Kj/m ²	11
Hardness Shore D	ASTM D 2240	-	68
ESCR, F50, 10% Igepal,	ASTM D1894	hr	12
Thermal Properties			
Vicat Softening Temperature	ASTM D 1525	°C	125
Melting Point	ASTM D2117	°C	132

The above data are typical laboratory average. They are intended to serve as guide only.



TPC

Tabriz Petrochemical Company

Address :

Azarshahr Road , Next
to the Tabriz Refinery
Tabriz , Iran

Po. BOX: 51745 - 354

Tel: [+98(0)411]4280000

FAX:

Tel: [+98(0)411]4201487

HD -6070UA High Density polyethylene

- Product Description

- HD-6070EA is a high density polyethylene injection moulding grade with a narrow molecular weight distribution. It is intended for use in injection moulding application where easy processing, high rigidity, good impact strength and high warpage resistance are required. This grade is available with UV stabilizer as HD-6070UA.

- Applications

- Creates
- Boxes
- Seats
- Structural foam
- Industrial pails
- Trays

- Typical Data

Property	Test Method	Unit	Typical Value
Physical Properties			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10Min	7.2
MFI(190°C/ 5.0Kg)			21.5
Density	ASTM D 1505	gr/cm ³	0.960
Formulation			
Anti Oxidant			√
UV Stabilizer			√
Mechanical Properties			
Flexural Modulus	ASTM D 790	MPa	1500
Tensile Strength at yield	ASTM D 638	MPa	26
Elongation at Break	ASTM D 638	%	1000
Charpy Impact Strength	ASTM D 256	Kj/m ²	6
Hardness Shore D	ASTM D 2240	-	68
ESCR	ASTM D1894		8
Thermal Properties			
Vicat Softening Temperature	ASTM D 1525	°C	125
Melting Point	ASTM D2117	°C	132



Tabriz Petrochemical Company

Address :

Azarshahr Road , Next
to the tabriz Refinery
Tabriz , Iran

Po. BOX: 51745 - 354

Tel: [+98(0)411]4280000

FAX:

Tel: [+98(0)411]4201487

HD 5030SA
High Density polyethylene

- Product Description

- HD-5030SA is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection moulding application requiring very high environmental stress cracking resistance. Articles produced from this grade exhibit excellent impact strength and stiffness, low warpage, high purity and quality controlled organoleptic properties, this grade is particularly intended for the packaging in direct contact with beverages. In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.

- Typical data

Property	Test Method	Unit	Typical Value
Physical Properties			
MFI(190°C/ 2.16Kg)	ASTM D 1238	gr/10min	2.0
MFI(190°C / 5.0Kg)			-
Density	ASTM D 1505	gr/cm ³	0.950
Formulation			
Anti Oxidant			√
Slip Agent			√
UV Stabilizer			
Mechanical Properties			
Flexural Modulus	ASTM D 790	MPa	1100
Tensile Strength at yield	ASTM D 638	MPa	27
Elongation at Break	ASTM D 638	%	1000
Charpy Impact Strength	ASTM D 256	kJ/m ²	15
Hardness Shore D	ASTM D 2240	-	65
ESCR, F50, 10% Igepal,	ASTM D1894	hr	30
Thermal Properties			
Vicat Softening Temperature	ASTM D 1525	°C	123
Melting Point	ASTM D2117	°C	130