



Doc Name:	Product Data sheet -High Density polyethylene, MEHR Petrochemical Co. HDPE 7000F	Page: 1 of 1
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Typical Data

Properties	Test method	value	value
Resin Properties			
Melt flow rate	ASTM D 1238 @ 190'C, 2.16 kg	0.04	g/10 min
Density	ASTM D 1505	0.954	g/cm ³
Melting point	ASTM D 2117	131	'C
Vicat Softening Point	ASTM D 1525	124	'C
Brittleness Temperature	ASTM D 746	<-60	'C
ESCR	ASTM D 1693 @ 50'C	>1000	Hrs, F50
Film Properties			
Tensile Strength at yield	ASTM D 638 @crosshead speed 50mm/ min	MD;_ *TD:250*	Kg/cm ²
Tensile strength at break	ASTM D 638 @crosshead speed 50mm/ min	MD:620*,TD:310*	Kg/cm ²
Tensile Modulus, 2% secant	ASTM D 638 @crosshead speed 50mm/ min	MD:8200*/TD:8000*	Kg/cm ²
Elongation at Break	ASTM D 638 @crosshead speed 50mm/ min	MD:240*,TD:450*	%
Elmendorf Tear Strength	ASTM D 1922	MD:3*TD:80*	g
Dart Impact Strength	ASTM D 1709	139*	g

Note:

(*) properties obtained from file produced on a pilot line, 12 micron, BUR 5:1, MD Machine Direction, TD = transverse direction note: Conversion factor for changing unit from kg/cm² to Mpa is divided by 10.2 .

Application

Recommend film thickness at 10-20 micronShooring bag and T-shirt bag
 High tensile strength with good dart impact strengthGarbage bag
 Low gel contentLiner bag
 Good moisture barrierEnhanced ultra-thin film
 Food contact applicablehigh stiffness
 Good impact resistance and processabilitywide service temperature range, UV resistance

Note: This information is based on our current knowledge and experience .In view of many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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