

SABIC M40060 Series High Density Polyethylene for Injection Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Product Description: M40060 is a high density polyethylene grade with a narrow molecular weight distribution suitable for injection molding applications. It has been designed to provide good rigidity, excellent toughness and low warpage. M40060 is also available with UV stabilizer as M40060S. **Typical Applications:** M40060 series grades are recommended for industrial pails, shipping containers and other parts requiring a balance of toughness and rigidity. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-M40060-Series-High-Density-Polyethylene-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1505
ESCR 100% Igepal®	6.0 hour	6.0 hour	F50; ASTM D1693B
ESCR 10% Igepal®	3.0 hour	3.0 hour	F50; ASTM D1693B
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
Tensile Strength, Yield	24.0 MPa	3480 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Strength	24.0 MPa	3480 psi	ASTM D790
Flexural Modulus	0.900 GPa	131 ksi	ASTM D790
1% Secant Modulus	950 MPa	138000 psi	ASTM D638
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Processing Properties	Metric	English	Comments
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Mold Temperature Processing Properties	15.0 - 60.0 °C Metric	59.0 - 140 °F English	Comments
Injection Pressure	60.0 - 100 MPa	8700 - 14500 psi	

Contact Songhan Plastic Technology Co.,Ltd.

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