

SABIC M300054 High Density Polyethylene for Injection Molding

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

Material Notes:

Product Description: M300054 is a high density polyethylene grade with a narrow molecular weight distribution suitable for injection molding applications. It has been designed to provide good flow properties, low warpage with faster molding cycles and excellent gloss. **Typical Applications:** M300054 is recommended for housewares, small containers, cups, caps & tubs and various thin wall articles. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-M300054-High-Density-Polyethylene-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D1505
ESCR 100% Igepal®	<= 1.0 hour	<= 1.0 hour	F50; ASTM D1693B
ESCR 10% Igepal®	<= 1.0 hour	<= 1.0 hour	F50; ASTM D1693B
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 190 °C	30 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	12.0 MPa	1740 psi	ASTM D638
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Strength	22.0 MPa	3190 psi	ASTM D790
Flexural Modulus	0.800 GPa	116 ksi	ASTM D790
1% Secant Modulus	750 MPa	109000 psi	ASTM D638
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	121 °C	250 °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.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China