

## SABIC M40053S High Density Polyethylene for Injection Molding

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

### Material Notes:

**Product Description:** M40053S is a UV stabilized high density polyethylene grade with a narrow molecular weight distribution suitable for injection molding applications. It has been designed to provide a good balance of stiffness and impact at low temperatures and also possesses good weatherability and surface properties. **Typical Applications:** M40053S is specially developed for the highly demanding dust bin market, shipped containers for low temperature storage, industrial pails, etc. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-M40053S-High-Density-Polyethylene-for-Injection-Molding.php](http://www.lookpolymers.com/polymer_SABIC-M40053S-High-Density-Polyethylene-for-Injection-Molding.php)

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D1505
ESCR 100% Igepal®	7.0 hour	7.0 hour	F50; ASTM D1693B
ESCR 10% Igepal®	4.0 hour	4.0 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	21.0 MPa	3050 psi	ASTM D638
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Strength	21.0 MPa	3050 psi	ASTM D790
Flexural Modulus	0.800 GPa	116 ksi	ASTM D790
1% Secant Modulus	900 MPa	131000 psi	ASTM D638
Izod Impact, Notched	1.50 J/cm	2.81 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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