

## Braskem IB58 HDPE Injection Molding Polyethylene Copolymer

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

### Material Notes:

IB58 is a high-density polyethylene, narrow molecular weight butene-1 copolymer produced by the solution process for injection molding applications. It offers good processability combined with good stiffness, impact strength, and stress crack resistance. It contains antioxidant additives. Its applications include: thin-wall articles, housewares, toys, food containers, and general purpose containers for indoor applications. IB58 has been developed for injection molding under conditions comparable to high-density polyethylene with a similar melt flow index. Recommended temperature profile: 160 to 230°C.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-IB58-HDPE-Injection-Molding-Polyethylene-Copolymer.php](http://www.lookpolymers.com/polymer_Braskem-IB58-HDPE-Injection-Molding-Polyethylene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in <sup>3</sup>	ASTM-D792
ESCR 100% Igepal®	<= 2.0 hour @Thickness 2.00 mm, Temperature 50.0 °C	<= 2.0 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	<= 1.0 hour @Thickness 2.00 mm, Temperature 50.0 °C	<= 1.0 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	35 g/10 min @Load 2.16 kg, Temperature 190 °C	35 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ASTM-D2240
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM-D638
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM-D638
Flexural Modulus, 1% Secant	1230 MPa	178000 psi	ASTM-D790
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	77.0 °C	171 °F	ASTM-D648
Vicat Softening Point	125 °C @Load 1.02 kg	257 °F @Load 2.25 lb	ASTM-D1525

## **Contact Songhan Plastic Technology Co.,Ltd.**

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