

## Braskem IA58 HDPE Injection Molding Polyethylene Copolymer

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

### Material Notes:

IA58 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 impact strength and stiffness. It contains antioxidant additives. Its applications include: housewares, toys, and general purpose containers for indoor applications. IA58 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-IA58-HDPE-Injection-Molding-Polyethylene-Copolymer.php](http://www.lookpolymers.com/polymer_Braskem-IA58-HDPE-Injection-Molding-Polyethylene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.957 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®	<= 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
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 190 °C	22 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM-D2240
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM-D638
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM-D638
Flexural Modulus, 1% Secant	1200 MPa	174000 psi	ASTM-D790
Izod Impact, Notched	0.340 J/cm	0.637 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	126 °C @Load 1.02 kg	259 °F @Load 2.25 lb	ASTM-D1525

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

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

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