

Braskem IG58 HDPE Injection Molding Polyethylene Copolymer

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

Material Notes:

IG58 is a high-density polyethylene, narrow molecular weight butene-1 copolymer produced by the solution process for injection molding applications. It offers high stiffness, impact strength and output (fast cycle). Its applications include: thin-wall articles, housewares, ice cream packaging, and food and general purpose containers. IG58 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-IG58-HDPE-Injection-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ASTM-D792
Melt Flow	50 g/10 min @Load 2.16 kg, Temperature 190 °C	50 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ASTM-D2240
Tensile Strength at Break	11.0 MPa	1600 psi	ASTM-D638
Tensile Strength, Yield	24.0 MPa	3480 psi	ASTM-D638
Flexural Modulus, 1% Secant	1190 MPa	173000 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)	71.0 °C	160 °F	ASTM-D648
Vicat Softening Point	125 °C @Load 1.02 kg	257 °F @Load 2.25 lb	ASTM-D1525

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