

Braskem IE59U3 HDPE Injection Molding Polyethylene Homopolymer

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

Material Notes:

IE59U3 is a high-density polyethylene, narrow molecular weight homopolymer produced by the solution process for injection molding applications. It offers high stiffness and impact strength, good processability, and low warpage. It contains light stabilizer and antioxidant additives. Its applications include: large containers, technical articles with high mechanical and weathering resistance, buckets, trash containers, crates, and safety helmets. IE59U3 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-IE59U3-HDPE-Injection-Molding-Polyethylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in ³	ASTM-D792
ESCR 10% Igepal®	<= 4.0 hour @Thickness 2.00 mm, Temperature 50.0 °C	<= 4.0 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	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	1200 MPa	174000 psi	ASTM-D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM-D648
Vicat Softening Point	129 °C @Load 1.02 kg	264 °F @Load 2.25 lb	ASTM-D1525

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