

Braskem IA59 HDPE Injection Molding Polyethylene Homopolymer

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

Material Notes:

IA59 is a high-density polyethylene, narrow molecular weight homopolymer produced by the solution process for injection molding applications. It offers high processability and low warpage and contains antioxidant additives. Its applications include: cases, pails, and food and general purpose containers for indoor applications. IA59 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-IA59-HDPE-Injection-Molding-Polyethylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM-D792
ESCR 10% Igepal®	<= 3.0 hour @Thickness 2.00 mm, Temperature 50.0 °C	<= 3.0 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	7.3 g/10 min @Load 2.16 kg, Temperature 190 °C	7.3 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	25.0 MPa	3630 psi	ASTM-D638
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM-D638
Flexural Modulus, 1% Secant	1300 MPa	189000 psi	ASTM-D790
Izod Impact, Notched	0.730 J/cm	1.37 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 °C	178 °F	ASTM-D648
Vicat Softening Point	129 °C @Load 1.02 kg	264 °F @Load 2.25 lb	ASTM-D1525

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