

Braskem IC32 LLDPE Injection Molding Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Molded

Material Notes:

IC32 is a linear low-density polyethylene, narrow molecular weight butene-1 copolymer produced by the solution process for injection molding. It offers good fluidity, excellent flexibility and tenacity, and low warpage. It contains special antioxidant additives. This resin has been specifically developed for lids molding injection, house appliances, and masterbatch production. IC32 resin has been developed to be used in injection molding in similar conditions to other linear low-density polyethylene of similar fluidity. Recommended temperature profile: 150 to 200°C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-IC32-LLDPE-Injection-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM-D729
ESCR 10% Igepal®	0.80 hour @Thickness 2.00 mm, Temperature 50.0 °C	0.80 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	29 g/10 min @Load 2.16 kg, Temperature 190 °C	29 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	10.0 MPa	1450 psi	ASTM-D638
Tensile Strength, Yield	12.0 MPa	1740 psi	ASTM-D638
Elongation at Break	250 %	250 %	ASTM-D638
Modulus of Rigidity	0.320 GPa	46.4 ksi	ASTM-D747
Flexural Modulus, 1% Secant	370 MPa	53700 psi	ASTM-D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C @Load 1.02 kg	203 °F @Load 2.25 lb	ASTM-D1525
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM-D746

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