

## Braskem IF33 LLDPE Injection Molding Polyethylene Copolymer

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

### Material Notes:

IF33 is a linear low-density polyethylene, narrow molecular weight butene-1 copolymer produced by the solution process for injection molding applications. It offers high fluidity, good flexibility, and low warpage. It contains antioxidant additives. This resin has been specifically developed for injection molding lid seals and lids for food containers, housewares, containers, and general purpose. IF33 has been developed to be used in the injection molding process under conditions comparable to linear low-density polyethylene. Recommended temperature profile: 150 to 210°C.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-IF33-LLDPE-Injection-Molding-Polyethylene-Copolymer.php](http://www.lookpolymers.com/polymer_Braskem-IF33-LLDPE-Injection-Molding-Polyethylene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.931 g/cc	0.0336 lb/in <sup>3</sup>	ASTM-D729
ESCR 10% Igepal®	<= 1.0 hour @Thickness 2.00 mm, Temperature 50.0 °C	<= 1.0 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	48 g/10 min @Load 2.16 kg, Temperature 190 °C	48 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	ASTM-D2240
Tensile Strength at Break	9.00 MPa	1310 psi	ASTM-D638
Tensile Strength, Yield	15.0 MPa	2180 psi	ASTM-D638
Elongation at Break	100 %	100 %	ASTM-D638
Elongation at Yield	14 %	14 %	ASTM-D638
Modulus of Rigidity	0.490 GPa	71.1 ksi	ASTM-D747
Flexural Modulus, 1% Secant	543 MPa	78800 psi	ASTM-D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	46.0 °C	115 °F	ASTM-D648
Vicat Softening Point	97.0 °C @Load 1.02 kg	207 °F @Load 2.25 lb	ASTM-D1525

Thermal Properties

Metric

English

Comments

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