

LyondellBasell Hifax[®],^ç CB285 Thermoplastic Polyolefin Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Polyolefin

Material Notes:

Description: Hifax[®],^ç CB285 high melt flow, 1,300 MPa flexural modulus, low CLTE, UV-stabilized, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has a very good balance of impact resistance, rigidity and dimensional stability. It was designed for exterior ornamentation applications that require stiffness, low thermal expansion characteristics, and good molded part aesthetics. Features include: excellent impact/stiffness balance, excellent molded part aesthetics, low CLTE, low mold shrinkage, very good dimensional stability, and good paintability and weatherability. Typical applications include: painted and molded-in color body side moldings, and painted and molded-in color rigid claddings and rocker panels. Uses: Automotive applications Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CB285-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527-1, -2
Elongation at Break	500 %	500 %	ISO 527-1, -2
Elongation at Yield	12 %	12 %	ISO 527-1, -2
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched (ISO)	36.0 kJ/m ² @Temperature 23.0 °C	17.1 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Dart Drop, Total Energy	25.0 J @Temperature -30.0 °C	18.4 ft-lb @Temperature -22.0 °F	Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C @Temperature -30.0 - 100 °C	25.6 µin/in-°F @Temperature -22.0 - 212 °F	ASTM D696
Shrinkage	0.50 %	0.50 %	Tool, 100x150x3.2 mm; Basell Test Method

Thermal Properties	0.800 % Metric	0.800 % English	Comments
	@Temperature 121 Â°C, Time 3600 sec	@Temperature 250 Â°F, Time 1.00 hour	100x150x3.2 mm; Basell Method

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