

LyondellBasell Hifax[®],^ç CA387 Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifax[®],^ç CA387 is a thermoplastic polyolefin elastomer suitable for automotive exterior parts
 Features: Good Stiffness
 Good Processability
 Good Impact Resistance
 Good Colorability
 Paintable
 High Flow
 Durable
 Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CA387-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in ³	ISO 1183
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 230 °C	17 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ISO 868
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527-1, -2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1, -2
Flexural Modulus	0.951 GPa	138 ksi	ISO 178
Izod Impact, Notched (ISO)	7.60 kJ/m ² @Temperature -40.0 °C	3.62 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	42.0 kJ/m ² @Temperature 10.0 °C	20.0 ft-lb/in ² @Temperature 50.0 °F	ISO 180
	46.0 kJ/m ² @Temperature 23.0 °C	21.9 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; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C @Temperature -30.0 - 100 °C	55.6 µin/in-°F @Temperature -22.0 - 212 °F	ASTM D696

Thermal Properties <small>Deflection Temperature at 0.46 MPa (69 psi)</small>	Metric °C	English	Comments ; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	52.8 °C	127 °F	Unannealed; ISO 75A-1, -2
Shrinkage	1.1 %	1.1 %	Tool, 100x150x3.2 mm; Basell Test Method
	1.50 % @Temperature 121 °C, Time 3600 sec	1.50 % @Temperature 250 °F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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