

LyondellBasell Hifax[®],^ç CA244 Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifax[®],^ç CA244 high melt flow, 850 MPa flexural modulus, paintable thermoplastic elastomeric olefin (TEO) resin has an excellent combination of stiffness, processability and dynamic impact characteristics. It was designed primarily for use in painted automotive bumper fascia applications where material flow is an important consideration. Uses: Automotive exterior parts
Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CA244-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength at Break	11.0 MPa	1600 psi	ISO 527-1, -2
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527-1, -2
Elongation at Break	500 %	500 %	ISO 527-1, -2
Elongation at Yield	14 %	14 %	ISO 527-1, -2
Flexural Modulus	0.848 GPa	123 ksi	ISO 178
Izod Impact, Notched (ISO)	3.90 kJ/m ² @Temperature -40.0 °C	1.86 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	33.0 kJ/m ² @Temperature 23.0 °C	15.7 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
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	Unannealed; ISO 75B-1, -2

Thermal Properties	Metric	English	Comments
Dimensional Change at 1.8 MPa (264 psi)	47.2 Å°C	117 Å°F	Unannealed; ISO 75A-1, -2
Shrinkage	0.80 %	0.80 %	Tool, 100x150x3.2 mm; Basell Test Method
	1.10 % @Temperature 121 Å°C, Time 3600 sec	1.10 % @Temperature 250 Å°F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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