

## LyondellBasell Hifax<sup>®</sup>,<sup>ç</sup> CB247G Thermoplastic Polyolefin Elastomer

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

### Material Notes:

Description: Hifax<sup>®</sup>,<sup>ç</sup> CB247G high melt flow, 1,700 MPa flexural modulus, UV-stabilized, weatherable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has a very good balance of properties and processability. It was designed for selected automotive interior and exterior components. Uses: Automotive applications Information provided by Basell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Hifax-CB247G-Thermoplastic-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CB247G-Thermoplastic-Polyolefin-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ISO 1183
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 230 °C	13 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527-1, -2
Tensile Strength, Yield	21.0 MPa	3050 psi	ISO 527-1, -2
Elongation at Break	80 %	80 %	ISO 527-1, -2
Elongation at Yield	7.0 %	7.0 %	ISO 527-1, -2
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
Izod Impact, Notched (ISO)	3.20 kJ/m <sup>2</sup> @Temperature -40.0 °C	1.52 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180
	26.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	12.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
Dart Drop, Total Energy	18.0 J @Temperature 23.0 °C	13.3 ft-lb @Temperature 73.4 °F	Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763
	23.0 J @Temperature -15.0 °C	17.0 ft-lb @Temperature 5.00 °F	Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763

Thermal Properties	Metric	English	Comments
	56.0 µm/m-°C	31.1 µin/in-°F	

Thermal Properties	Metric @ Temperature -30.0 - 100 Â°C	English @ Temperature -22.0 - 212 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 Â°C	131 Â°F	Unannealed; ISO 75A-1, -2
Shrinkage	0.80 %	0.80 %	Tool, 100x150x3.2 mm; Basell Test Method
	1.10 % @ Temperature 121 Â°C, Time 3600 sec	1.10 % @ Temperature 250 Â°F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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