

## LyondellBasell Hifax<sup>®</sup>,<sup>ç</sup> CB251 Thermoplastic Polyolefin Elastomer

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

### Material Notes:

Description: Hifax<sup>®</sup>,<sup>ç</sup> CB251 medium melt flow, 1,200 MPa flexural modulus, low CLTE, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has an excellent balance of impact resistance, stiffness and dimensional stability. It was designed primarily for rigid automotive exterior ornamentation applications requiring low thermal expansion characteristics. Uses: Automotive exterior parts  
Information provided by Basell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Hifax-CB251-Thermoplastic-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CB251-Thermoplastic-Polyolefin-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ISO 868
Tensile Strength at Break	17.0 MPa	2470 psi	ISO 527-1, -2
Tensile Strength, Yield	15.0 MPa	2180 psi	ISO 527-1, -2
Elongation at Break	550 %	550 %	ISO 527-1, -2
Elongation at Yield	12 %	12 %	ISO 527-1, -2
Flexural Modulus	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180
	48.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	22.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
Dart Drop, Total Energy	22.0 J @Temperature -30.0 °C	16.2 ft-lb @Temperature -22.0 °F	Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C	25.0 µin/in-°F	ASTM D696

Thermal Properties	@Temperature -30.0 - Metric 100 Â°C	@Temperature -22.0 - English 212 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.2 Â°C	180 Â°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	47.2 Â°C	117 Â°F	Unannealed; ISO 75A-1, -2
Shrinkage	0.50 %	0.50 %	Tool, 100x150x3.2 mm; Basell Test Method
	0.700 %  @Temperature 121 Â°C, Time 3600 sec	0.700 %  @Temperature 250 Â°F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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