

## LyondellBasell Hifax<sup>®</sup>,<sup>ç</sup> CB272 Thermoplastic Polyolefin Elastomer

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

### Material Notes:

Description: Hifax<sup>®</sup>,<sup>ç</sup> CB272 high melt flow, 900 MPa flexural modulus, low CLTE, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has a very good balance of rigidity and dimensional stability. It was designed for exterior ornamentation applications requiring low mold shrinkage, moderate stiffness and low thermal expansion characteristics. Uses: Automotive applications  
Information provided by Basell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Hifax-CB272-Thermoplastic-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-CB272-Thermoplastic-Polyolefin-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 1183
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 230 °C	18 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	13.0 MPa	1890 psi	ISO 527-1, -2
Elongation at Break	550 %	550 %	ISO 527-1, -2
Elongation at Yield	15 %	15 %	ISO 527-1, -2
Flexural Modulus	0.903 GPa	131 ksi	ISO 178

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 µm/m-°C @Temperature -30.0 - 100 °C	20.0 µin/in-°F @Temperature -22.0 - 212 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	71.1 °C	160 °F	Unannealed; ISO 75B-1, -2
Shrinkage	0.30 %	0.30 %	Tool, 100x150x3.2 mm; Basell Test Method
	0.500 % @Temperature 121 °C, Time 3600 sec	0.500 % @Temperature 250 °F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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