

LyondellBasell Hifax™ HSBMCB1158LS Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifax™ HSBMCB1158LS high melt flow, 1,200 MPa flexural modulus, mineral filled thermoplastic elastomeric olefin (TEO) resin has a unique balance of flow, rigidity, low temperature impact resistance, dimensional stability and paintability. It was designed for thin-walled bumper fascia applications that require high paint durability. Features include: high flow, high stiffness, excellent impact resistance, good mold filling capability, good dimensional stability, and very good paint durability. Typical applications include painted automotive thin-walled bumper fascias. Uses: Fascias Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-HSBMCB1158LS-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ISO 1183
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 230 °C	22 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ISO 868
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527-1, -2
Elongation at Yield	10 %	10 %	ISO 527-1, -2
Flexural Modulus	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature -40.0 °C	1.90 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	4.20 kJ/m ² @Temperature -30.0 °C	2.00 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 µm/m-°C @Temperature -30.0 - 100 °C	35.0 µin/in-°F @Temperature -22.0 - 212 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	Unannealed; ISO 75B-1, -2

Thermal Properties Deflection Temperature at 1.8 MPa (204 psi)	Metric	English	Comments ; ISO 75A-1, -2
Shrinkage	0.70 %	0.70 %	Tool, 100x150x3.2 mm; Basell Test Method
	1.00 % @Temperature 121 °C, Time 3600 sec	1.00 % @Temperature 250 °F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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