LyondellBasell Hifaxâ„¢ HSBMG265 Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifaxâ„¢ HSBMG265 medium high melt flow, 1,400 MPa flexural modulus, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has an excellent combination of rigidity, low temperature impact resistance, dimensional stability and processability. It was designed for use in thin-walled bumper fascia applications that require high paint durability. Uses: Automotive exterior partsInformation provided by Basell.

Order this product through the following link:
http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-HSBMG265-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/inÂ³	ISO 1183
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 230 Â°C	13 g/10 min @Load 4.76 lb, Temperature 446 Â°F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ISO 868
Tensile Strength at Break	16.0 MPa	2320 psi	ISO 527-1, -2
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527-1, -2
Elongation at Break	350 %	350 %	ISO 527-1, -2
Elongation at Yield	10 %	10 %	ISO 527-1, -2
Flexural Modulus	1.40 GPa	203 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature -40.0 Â°C	2.38 ft-lb/inÂ² @Temperature -40.0 Â°F	ISO 180
	48.0 kJ/mÂ² @Temperature 23.0 Â°C	22.8 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180
Dart Drop, Total Energy	24.0 J @Temperature -30.0 Â°C	17.7 ft-lb @Temperature -22.0 Â°F	Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	64.0 Âµm/m-Â°C	35.6 Âµin/in-Â°F	ASTM D696

Thermal Properties	Metric	English	Comments
	@Temperature -30.0 - 100 Â°C	@Temperature -22.0 - 212 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	97.2 Â°C	207 Â°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	53.9 Â°C	129 Â°F	Unannealed; ISO 75A-1, -2
Shrinkage	0.70 %	0.70 %	Tool, 100x150x3.2 mm; Basell Test Method
	0.900 % @Temperature 121 Â°C, Time 3600 sec	0.900 % @Temperature 250 Â°F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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