

LyondellBasell Hifax[®],^ç HSBMR246 Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifax[®],^ç HSBMR246 medium high melt flow, 1,500 MPa flexural modulus, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has an outstanding balance of physical properties, processability and paintability. It was designed for use in thin-walled bumper fascia applications that require high paint durability. Uses: Automotive exterior parts
Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-HSBMR246-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ISO 1183 & ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Thickness 3.18 mm	@Thickness 0.125 in	
Melt Flow	12 g/10 min	12 g/10 min	Condition L; ASTM D1238
	@Load 2.16 kg, Temperature 230 Å°C	@Load 4.76 lb, Temperature 446 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ISO 868
	70	70	ASTM D2240
Tensile Strength at Break	17.0 MPa	2470 psi	ISO 527-1, -2
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
	20.0 MPa	2900 psi	ISO 527-1, -2
Elongation at Break	300 %	300 %	ISO 527-1, -2
	450 %	450 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ISO 527-1, -2
Flexural Modulus	1.45 GPa	210 ksi	ASTM D790
	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	
	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 180
	@Temperature 23.0		

Mechanical Properties	Metric	English	Comments
Gardner Impact	28.2 J	20.8 ft-lb	ASTM D3029
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Dart Drop, Total Energy	23.0 J	17.0 ft-lb	Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Tear Strength	131 kN/m	750 pli	ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 Åµm/m-Å°C	30.6 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 100 Å°C	@Temperature -22.0 - 212 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Å°C	203 Å°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	52.2 Å°C	126 Å°F	Unannealed; ISO 75A-1, -2
Shrinkage	0.70 %	0.70 %	Tool, 100x150x3.2 mm; Basell Test Method
	0.900 %	0.900 %	
	@Temperature 121 Å°C, Time 3600 sec	@Temperature 250 Å°F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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