

LyondellBasell Hifax[®],^ç ETA3081HS Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifax[®],^ç ETA3081HS medium melt flow, 800 MPa flexural modulus, paintable thermoplastic elastomeric olefin (TEO) resin has balanced physical properties, moldability and paintability. Like its lower shrinkage counterpart, ETA3081, ETA3081HS was designed for a wide variety of painted and molded-in color automotive exterior components. Uses: Automotive applications Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-ETA3081HS-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	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	61	61	ISO 868
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527-1, -2
Tensile Strength, Yield	16.0 MPa	2320 psi	ISO 527-1, -2
Elongation at Break	500 %	500 %	ISO 527-1, -2
Elongation at Yield	15 %	15 %	ISO 527-1, -2
Flexural Modulus	0.800 GPa	116 ksi	ISO 178
Izod Impact, Notched (ISO)	8.80 kJ/m ² @Temperature -40.0 °C	4.19 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	50.0 kJ/m ² @Temperature 10.0 °C	23.8 ft-lb/in ² @Temperature 50.0 °F	ISO 180
	54.0 kJ/m ² @Temperature 23.0 °C	25.7 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Gardner Impact	34.0 J @Temperature -30.0 °C	25.1 ft-lb @Temperature -22.0 °F	ASTM D3029, tested in accordance with ASTM D5420

Mechanical Properties Dart Drop, Total energy	23.0 J Metric	17.0 ft-lb English	Comments Notched Energy at Maximum Load, Ductile Failure; ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	63.9 Â°C	147 Â°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	43.9 Â°C	111 Â°F	Unannealed; ISO 75A-1, -2
Shrinkage	1.2 %	1.2 %	Tool, 100x150x3.2 mm; Basell Test Method
	1.60 % @Temperature 121 Â°C, Time 3600 sec	1.60 % @Temperature 250 Â°F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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