

LyondellBasell Hifax™ ETA3163/1 Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifax™ ETA3163/1 medium melt flow, 900 MPa flexural modulus, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has an excellent balance of stiffness and low temperature impact resistance. It was designed specifically for use in various automotive exterior ornamentation applications. Uses: Automotive exterior parts

Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-ETA31631-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in³	ISO 1183
Melt Flow	7.0 g/10 min	7.0 g/10 min	Condition L; ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ISO 868
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527-1, -2
Elongation at Break	600 %	600 %	ISO 527-1, -2
Flexural Modulus	0.903 GPa	131 ksi	ISO 178
Dart Drop, Total Energy	24.0 J	17.7 ft-lb	Instrumented, Energy at Maximum Load, Ductile Failure; ASTM D3763
	@Temperature -15.0 °C	@Temperature 5.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	51.1 °C	124 °F	Unannealed; ISO 75A-1, -2
Shrinkage	0.90 %	0.90 %	Tool, 100x150x3.2 mm; Basell Test Method
	1.10 % @Temperature 121 °C, Time 3600 sec	1.10 % @Temperature 250 °F, Time 1.00 hour	

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