

LyondellBasell Hifaxâ„¢ RTA3263/2 Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifaxâ„¢ RTA3263/2 medium melt flow, 1,700 MPa flexural modulus, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has a very good combination of rigidity, impact strength and paintability. It was designed primarily for rigid automotive exterior ornamentation applications. Uses: Automotive exterior partsInformation provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-RTA32632-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183 & ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	0.125 in; ASTM D955
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C	8.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ISO 868 & ASTM D2240
Tensile Strength at Break	17.2 MPa	2500 psi	ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527-1, -2
	20.7 MPa	3000 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Elongation at Yield	10 %	10 %	ISO 527-1, -2 & ASTM D638
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched (ISO)	3.30 kJ/m ² @Temperature -40.0 Â°C	1.57 ft-lb/in ² @Temperature -40.0 Â°F	ISO 180
	5.90 kJ/m ² @Temperature -30.0 Â°C	2.81 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180
	21.0 kJ/m ² @Temperature 23.0 Â°C	9.99 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180

Mechanical Properties	Metric	English	Comments
Charpy Impact	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D3029, tested in accordance with ASTM D5420
Dart Drop, Total Energy	17.0 J @Temperature -30.0 Â°C	12.5 ft-lb @Temperature -22.0 Â°F	Instrumented Energy at Maximum Load, Ductile Failure; ASTM D3763
Tear Strength	105 kN/m	600 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	56.1 Â°C	133 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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