

LyondellBasell Hifax[®],^ç DR279 Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hifax[®],^ç DR279 high melt flow, 1,200 MPa flexural modulus, paintable thermoplastic elastomeric olefin (TEO) resin has a unique balance of stiffness, impact resistance, processability and paintability. It was designed for challenging large part automotive applications that require structural and low temperature impact performance. Features include excellent impact/stiffness balance, excellent moldfilling capability, and excellent paintability and paint durability. Typical applications include painted automotive thin-walled bumper fascias and high impact, large interior part components. Uses: Fascias, Automotive interior parts Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-DR279-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Melt Flow	30 g/10 min	30 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, Rockwell R	77	77	ISO 2039-2
Hardness, Shore D	68	68	ISO 868
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527-1, -2
Elongation at Break	200 %	200 %	ISO 527-1, -2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1, -2
Flexural Modulus	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched (ISO)	4.90 kJ/m ²	2.33 ft-lb/in ²	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.80 kJ/m ²	3.24 ft-lb/in ²	ISO 180
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	NB	NB	ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear</i>	92.0 Åum/m-Å°C Metric	51.1 Åuin/in-Å°F English	Comments ASTM D696
	@Temperature -30.0 - 100 Å°C	@Temperature -22.0 - 212 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	98.9 Å°C	210 Å°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	52.8 Å°C	127 Å°F	Unannealed; ISO 75A-1, -2
Shrinkage	1.2 %	1.2 %	Tool, 100x150x3.2 mm; Basell Test Method
	1.50 % @Temperature 121 Å°C, Time 3600 sec	1.50 % @Temperature 250 Å°F, Time 1.00 hour	Afterbake, 100x150x3.2 mm; Basell Method

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