

LyondellBasell Hostacomâ„ž TRC704D Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hostacomâ„ž TRC704D medium high melt flow, 1,500 MPa flexural modulus, UV-stabilized thermoplastic elastomeric olefin (TEO) resin has an excellent combination of properties and processability. It was designed for applications that require excellent aesthetics and a good balance of stiffness and impact performance. Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hostacom-TRC704D-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 230 Â°C	16 g/10 min @Load 4.76 lb, Temperature 446 Â°F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527-1, -2
Elongation at Break	380 %	380 %	ISO 527-1, -2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1, -2
Flexural Modulus	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ² @Temperature 0.000 Â°C	0.952 ft-lb/in ² @Temperature 32.0 Â°F	ISO 180
	4.90 kJ/m ² @Temperature 23.0 Â°C	2.33 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180

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)	63.9 Â°C	147 Â°F	Unannealed; ISO 75A-1, -2
Shrinkage	1.2 %	1.2 %	Tool; Basell Test Method

Optical Properties	Metric	English	Comments
Gloss	>= 85 %	>= 85 %	60Â°, Gardner gloss; ASTM D523

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