

LyondellBasell Hostacomâ„¸ TKS709D Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hostacomâ„¸ TKS709D medium high melt flow, 1,600 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-TKS709D-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	33.0 MPa	4790 psi	ISO 527-1, -2
Elongation at Break	350 %	350 %	ISO 527-1, -2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1, -2
Flexural Modulus	1.60 GPa	232 ksi	ISO 178
Izod Impact, Notched (ISO)	1.50 kJ/m ² @Temperature 0.000 Â°C	0.714 ft-lb/in ² @Temperature 32.0 Â°F	ISO 180
	3.80 kJ/m ² @Temperature 23.0 Â°C	1.81 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	104 Â°C	219 Â°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	66.1 Â°C	151 Â°F	Unannealed; ISO 75A-1, -2
Shrinkage	1.3 %	1.3 %	Tool; Basell Test Method

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

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