

LyondellBasell Hostacomâ„ç TKS708D Thermoplastic Polyolefin Elastomer

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

Material Notes:

Description: Hostacomâ„ç TKS708D medium high melt flow, 1,300 MPa flexural modulus, UV-stabilized, high impact thermoplastic elastomeric olefin (TEO) resin has an excellent combination of properties and processability. It was designed for applications that require good low temperature impact resistance, moderate rigidity, and excellent aesthetics. Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hostacom-TKS708D-Thermoplastic-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 230 Â°C	15 g/10 min @Load 4.76 lb, Temperature 446 Â°F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527-1, -2
Elongation at Break	400 %	400 %	ISO 527-1, -2
Elongation at Yield	10 %	10 %	ISO 527-1, -2
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature 0.000 Â°C	1.43 ft-lb/in ² @Temperature 32.0 Â°F	ISO 180
	14.0 kJ/m ² @Temperature 23.0 Â°C	6.66 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180
Dart Drop, Total Energy	25.0 J @Temperature 0.000 Â°C	18.4 ft-lb @Temperature 32.0 Â°F	Instrumented Energy at Maximum Load; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.8 Â°C	199 Â°F	Unannealed; ISO 75B-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	57.2 Â°C	135 Â°F	Unannealed; ISO 75A-1, -2
Shrinkage	1.1 %	1.1 %	Tool; Basell Test Method

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

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