GLS 475-044

Thermoplastic Elastomer

Key Characteristics

Product Description			
GLS 475-044 thermoplastic elastomer compound is based on hydrogenated styrenic block copolymers. This compound is specially formulated to deliver good compression set performance at elevated temperatures and a high heat resistance.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Chalk, 15% Filler by Weight		
Features	• UV Stabilized		
Uses	• Appliance Components		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C))	1.15 g/cm³	1.15 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/5.0 kg)	60 to 75 g/10 min	60 to 75 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/5.0 kg)	60 to 75 cm³/10min	60 to 75 cm³/10min	ISO 1133
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			ISO 37
Across Flow : Break, 73°F (23°C)	1380 psi	9.50 MPa	
Flow : Break, 73°F (23°C)	1600 psi	11.0 MPa	
Tensile Elongation			ISO 37
Across Flow : Break, 73°F (23°C)	360 %	360 %	
Flow : Break, 73°F (23°C)	350 %	350 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	80	80	ISO 48-4
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			Internal Method
428°F (220°C), 11200 sec^-1	17.3 Pa·s	17.3 Pa·s	
Additional Information			
Properties are measured using injection molded plaques.			

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	347 to 437 °F	175 to 225 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	Fast

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Notes

[1] Typical values are not to be construed as specifications.

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