GLS AE4-398

Thermoplastic Elastomer

Key Characteristics

Product Description

GLS AE4-398 is an easy processing, general purpose TPE designed for a wide variety of applications, and may be appropriate where FDA and EU 10/2011 compliances are required.

- Non-Slip Grip
- Overmold Adhesion to Polypropylene
- Soft Touch, Rubbery Feel

General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• General Purpose • Good Colorability	• Good Flow • Good Processability	• Recyclable Material
Uses	• Consumer Applications • Flexible Grips • Gaskets	• General Purpose • Household Goods • Overmolding	• Seals • Soft Touch Applications
Agency Ratings	• EU 10/2011 [1]	• FDA 21 CFR 177.1210 [1]	• FDA 21 CFR 177.2600 [1]
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.880 g/cm³	0.880 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	> 100 g/10 min	> 100 g/10 min	ISO 1133
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			DIN 53504
100% Strain, 0.0787 in (2.00 mm)	72.5 psi	0.500 MPa	
Tensile Stress			DIN 53504
300% Strain, 0.0787 in (2.00 mm)	189 psi	1.30 MPa	
Tensile Strength			DIN 53504
Break, 0.0787 in (2.00 mm)	479 psi	3.30 MPa	
Tensile Elongation			DIN 53504
Break, 0.0787 in (2.00 mm)	880 %	880 %	
Tear Strength (0.0787 in (2.00 mm))	68.5 lbf/in	12.0 kN/m	ISO 34
Compression Set			ISO 815
73°F (23°C), 72 hr	22 %	22 %	
158°F (70°C), 22 hr	41 %	41 %	
212°F (100°C), 22 hr	69 %	69 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	25	25	ISO 48-4
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ISO 11443
392°F (200°C), 11200 sec^-1	6.10 Pa·s	6.10 Pa·s	

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	320 to 374 °F	160 to 190 °C
Middle Temperature	356 to 392 °F	180 to 200 °C
Front Temperature	374 to 410 °F	190 to 210 °C
Nozzle Temperature	365 to 428 °F	185 to 220 °C
Mold Temperature	77 to 104 °F	25 to 40 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	290 to 1450 psi	2.00 to 10.0 MPa

Notes

[1] Product rating may be influenced by end product design and/or conditions of use. Please contact GLS Thermoplastic Elastomers for information addressing EU (EU, 10/2011) and FDA (21 CFR 177.1210 and 177.2600) compliance.

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

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