GLS AC0-233

Thermoplastic Elastomer

Key Characteristics

Product Description			
GLS AC0-233 is a thermoplastic elastomer compound based on thermoplastic polyurethane elastomers (TPE-U). GLS AC0-233 is formulated to deliver very good scratch resistance and good chemical resistance.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Abrasion Resistant	• Good Scratch Resistance	• Oil Resistant
Uses	• Automotive Applications • Consumer Applications	• General Purpose • Industrial Applications	• Power/Other Tools
RoHS Compliance	• RoHS Compliant		
Appearance	• Matte Finish		
Forms	• Pellets		
Processing Method	• Calendering	• Film Extrusion	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C))	1.10 g/cm³	1.10 g/cm³	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress [2]			DIN 53504
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	2310 psi	15.9 MPa	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	2420 psi	16.7 MPa	
Tensile Elongation [2]			DIN 53504
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	630 %	630 %	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	640 %	640 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	67	67	ISO 48-4
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	
Generic Material Type	Thermoplastic Polyurethane Elastomer (TPU)	Thermoplastic Polyurethane Elastomer (TPU)	

Properties are measured using injection molded plaques.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 hr	3.0 hr
Processing (Melt) Temp	338 to 410 °F	170 to 210 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Slow	Slow

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Notes

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

[2] 7.9 in/min (200 mm/min)

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