



Versaflex™ G 7390

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ G 7390 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	• Europe		
Features	• General Purpose • Good Colorability	• Good Flow • Good Processability	• Good Processing Stability • Recyclable Material
Uses	• Consumer Applications • Flexible Grips • Gaskets	• General Purpose • Household Goods • Overmolding	• Seals • Soft Touch Applications • Sporting Goods
Agency Ratings	• EU 10/2011 ¹	• FDA 21 CFR 177.1210 ¹	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• FMVSS 302		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1133
Molding Shrinkage - Flow (0.0787 in (2.00 mm))	1.3 to 2.1 %	1.3 to 2.1 %	ISO 294-4
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{3,4} (100% Strain, 73°F (23°C))	508 psi	3.50 MPa	ISO 37
Tensile Stress ^{3,4} (300% Strain, 73°F (23°C))	653 psi	4.50 MPa	ISO 37
Tensile Strength ^{3,4} (Break, 73°F (23°C))	1350 psi	9.30 MPa	ISO 37
Tensile Elongation ^{3,4} (Break, 73°F (23°C))	600 %	600 %	ISO 37
Tear Strength	188 lbf/in	33.0 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72 hr	39 %	39 %	
158°F (70°C), 22 hr	70 %	70 %	
212°F (100°C), 22 hr	88 %	88 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 3 sec)	90	90	ISO 868
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94
Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec ⁻¹	6.40 Pa·s	6.40 Pa·s	

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	320 to 370 °F	160 to 188 °C
Middle Temperature	350 to 380 °F	177 to 193 °C
Front Temperature	370 to 410 °F	188 to 210 °C
Nozzle Temperature	370 to 420 °F	188 to 216 °C
Mold Temperature	60.0 to 100 °F	15.6 to 37.8 °C
Back Pressure	0.00 to 120 psi	0.00 to 0.827 MPa
Screw Speed	40 to 100 rpm	40 to 100 rpm

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) compliance.

² Typical values are not to be construed as specifications.

³ Die C

⁴ 2 hr

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