



Versaflex™ G 7400-40 N

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ G 7400-40 N 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		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C), Natural)	1.20 g/cm ³	1.20 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	84 cm ³ /10min	84 cm ³ /10min	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 (100% Strain, 73°F (23°C))	102 psi	0.700 MPa	DIN 53504-S2
Tensile Stress ³ (300% Strain, 73°F (23°C))	160 psi	1.10 MPa	DIN 53504-S2
Tensile Strength ³ (Break, 73°F (23°C))	638 psi	4.40 MPa	DIN 53504-S2
Tensile Elongation ³ (Break, 73°F (23°C))	900 %	900 %	DIN 53504-S2
Tear Strength	97.1 lbf/in	17.0 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72 hr	23 %	23 %	
158°F (70°C), 22 hr	43 %	43 %	
212°F (100°C), 22 hr	69 %	69 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness ⁴			ISO 7619
Shore A, 10 sec, 73°F (23°C), Injection Molded	40	40	
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 392°F (200°C), 11200 sec ⁻¹	7.70 Pa·s	7.70 Pa·s	ASTM D3835

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 to 100 °F	16 to 38 °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 7.9 in/min (200 mm/min)

⁴ ± 5 Sh A



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