Versaflex™ GP 2810-45N EU

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ GP 2810-45N EU is an easy processing, general purpose TPE designed for a wide variety of applications:

- 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	• Recyclable Material
Uses	• Consumer Applications • Flexible Grips • Gaskets	• General Purpose • Household Goods • Overmolding	• Seals • Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.890 g/cm³	0.890 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	10 g/10 min	10 g/10 min	
190°C/5.0 kg	> 100 g/10 min	> 100 g/10 min	
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			DIN 53504
100% Strain, 0.0787 in (2.00 mm)	160 psi	1.10 MPa	
Tensile Stress			DIN 53504
300% Strain, 0.0787 in (2.00 mm)	261 psi	1.80 MPa	
Tensile Strength			DIN 53504
Break, 0.0787 in (2.00 mm)	870 psi	6.00 MPa	
Tensile Elongation			DIN 53504
Break, 0.0787 in (2.00 mm)	800 %	800 %	
Tear Strength (0.0787 in (2.00 mm))	108 lbf/in	19.0 kN/m	ISO 34
Compression Set			ISO 815
73°F (23°C), 72 hr	27 %	27 %	
158°F (70°C), 22 hr	45 %	45 %	
212°F (100°C), 22 hr	67 %	67 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	45	45	ISO 48-4
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ISO 11443
392°F (200°C), 11200 sec^-1	6.80 Pa·s	6.80 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	347 to 383 °F	175 to 195 °C
Front Temperature	374 to 410 °F	190 to 210 °C
Nozzle Temperature	374 to 419 °F	190 to 215 °C
Mold Temperature	77 to 104 °F	25 to 40 °C
Back Pressure	290 to 1450 psi	2.00 to 10.0 MPa
Screw Speed	40 to 100 rpm	40 to 100 rpm

Notes

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

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