Versaflex™ GP 3630-45N

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ GP 3630-45N is an easy processing, general purpose TPE designed for a wide variety of applications.

- Overmold Adhesion to PC,ABS,PBT
- Soft Touch, Rubbery Feel

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
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	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.970 g/cm³	0.970 g/cm³	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			ASTM D412
300% Strain, 0.0787 in (2.00 mm)	700 psi	4.83 MPa	
Tensile Strength			ASTM D412
Break, 0.0787 in (2.00 mm)	700 psi	4.83 MPa	
Tensile Elongation			ASTM D412
Break, 0.0787 in (2.00 mm)	730 %	730 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 3 sec)	42	42	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ISO 11443
392°F (200°C), 11200 sec^-1	13.0 Pa·s	13.0 Pa·s	

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
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	0.00 to 120 psi	0.00 to 0.827 MPa

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Notes

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

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