Versaflex™ GP 2810-70N US

Thermoplastic Elastomer

Key Characteristics

Product Description		
Versaflex GP 2810-70N US is a general purpose, unfilled TPE compound		
General		
Material Status	• Commercial: Active	
Regional Availability	• North America	
Agency Ratings	• EU 10/2011 [1] • FDA 21 CFR 177.1210 [1]	• FDA 21 CFR 177.2600 [1] • UL 94 HB
RoHS Compliance	• RoHS Compliant	
Appearance	• Translucent	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.880	0.880	ASTM D792
Molding Shrinkage - Flow	0.012 to 0.018 in/in	1.2 to 1.8 %	ASTM D955
Molding Shrinkage - Across Flow	0.011 to 0.015 in/in	1.1 to 1.5 %	ASTM D955
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength (Break)	1080 psi	7.45 MPa	ASTM D412
Tensile Elongation [3, 4] (Break, 73°F (23°C))	720 %	720 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	68	68	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	5.70 Pa·s	5.70 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	330 to 370 °F	166 to 188 °C
Middle Temperature	350 to 380 °F	177 to 193 °C
Front Temperature	370 to 440 °F	188 to 227 °C
Nozzle Temperature	360 to 420 °F	182 to 216 °C
Processing (Melt) Temp	380 to 440 °F	193 to 227 °C
Mold Temperature	60 to 100 °F	16 to 38 °C

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Injection Notes
Color concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Versaflex™ GP 2810. Improved color dispersion can be achieved by using higher melt flow concentrates (with a melt flow from 25 - 40 g/10 min). Typical loadings for color concentrates are 1% to 5% by weight. Concentrates based on PVC should not be used. The final determination of color concentrate suitability should be determined by customer trials.
Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP).
Regrind levels up to 20% can be used with Versaflex™ GP 2810 with minimal property losses, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should be as low as possible. The final determination of regrind effectiveness should be determined by the customer.
The Versaflex™ GP 2810 has excellent melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 8 - 10 minutes or longer.
Drying is not Required

Notes

[1] Contact GLS Thermoplastic Elastomers for a copy of the FDA Compliance letter

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

[3] Die C

[4] 2 hr

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