# Versaflex™ GP 2810-60N US

## Thermoplastic Elastomer

### Key Characteristics

| Product Description | | | |
|---|---|---|---|
| Versaflex™ GP 2810-60N 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] |
| 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 |
| **Elastomers** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Stress [3, 4] (300% Strain, 73°F (23°C)) | 525 psi | 3.62 MPa | ASTM D412 |
| Tensile Strength (Break) | 1090 psi | 7.52 MPa | ASTM D412 |
| Tensile Elongation [3, 4] (Break, 73°F (23°C)) | 700 % | 700 % | ASTM D412 |
| Tear Strength | 151 lbf/in | 26.4 kN/m | ASTM D624 |
| Compression Set (73°F (23°C), 22 hr) | 21 % | 21 % | ASTM D395 |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Durometer Hardness (Shore A, 10 sec) | 61 | 61 | ASTM D2240 |
| **Fill Analysis** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Apparent Viscosity | | | ASTM D3835 |
| 392°F (200°C), 11200 sec^-1 | 6.20 Pa·s | 6.20 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

### CONTACT INFORMATION

**North America**
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

**South America**
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

**Asia**
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

**Europe**
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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