Versaflex™ HC BT 219 EU

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ HC BT219 EU is a weldable TPE with great tensile strength performance developed for biopharmaceutical tubing applications in healthcare.

- Autoclavable sterilizable
- Weldable
- Kink Resistant

New product. Commercial specifications have not been established.

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Good Color Stability	• Good Flexibility	• Kink Resistant
Uses	• Medical/Healthcare Applications	• Tubing	
Agency Ratings	• ISO 10993-11 • ISO 10993-4	• ISO 10993-5 • USP Class VI [1]	
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.890	0.890	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (100% Strain, 73°F (23°C))	406 psi	2.80 MPa	DIN 53504
Tensile Stress (300% Strain, 73°F (23°C))	624 psi	4.30 MPa	DIN 53504
Tensile Strength (Break, 73°F (23°C))	1680 psi	11.6 MPa	DIN 53504
Tensile Elongation (Break, 73°F (23°C))	920 %	920 %	DIN 53504
Tear Strength	257 lbf/in	45.0 kN/m	ISO 34-1
Compression Set [3]			ISO 815
73°F (23°C), 72 hr	23 %	23 %	
158°F (70°C), 22 hr	63 %	63 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	65	65	ISO 48-4
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ISO 11343
392°F (200°C), 1340 sec^-1	72.0 Pa·s	72.0 Pa·s	
392°F (200°C), 11200 sec^-1	14.5 Pa·s	14.5 Pa·s	

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	356 to 410 °F	180 to 210 °C
Die Temperature	356 to 419 °F	180 to 215 °C

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Extrusion Notes

Rear: 170 to 190°C
Center: 175 to 205°C
Front: 180 to 215°C
Screw speed: 100 to 500 RPM
Drying is not required

Color concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Versaflex™ HC BT219 EU. Improved color dispersion can be achieved by using higher melt flow concentrates (with a melt flow from 25 - 40g/10 min). Typical loadings for color concentrates are 1% to 5% by weight. Liquid color can be used, but mineral oil based carriers may have a significant effect on the final hardness value. Concentrates based on PVC should not be used. A high color match consistency can be obtained by using precolored compounds available from GLS. 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).

The use of regrind is not recommended for Versaflex™ HC BT219 EU.

Notes

[1] Please contact PolyOne GLS Thermoplastic Elastomers for a complete copy of the GLS Healthcare Policy.
1. The Customer must notify GLS of any FDA Class I and/or European Union Class I medical devices for each specific product and application.
2. The Customer shall not knowingly manufacture, use, sell or otherwise supply, directly or indirectly products or compounds made from GLS products in any of the following without prior written approval by GLS for each specific product or application:
a. Cosmetics
b. Drugs and other Pharmaceuticals
c. Temporary or permanent implantation in the human body, regardless of the intended duration of implantation
d. Class II and Class III Medical Devices as defined in 21 CFR 860.3 ("Medical Devices")
e. Class IIa, IIb and III as defined in Directive 93/42/EEC

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

[3] Method A

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