

Versaflex™ HC MT317

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versaflex™HC MT317 is a kind of TPE that can be squeezed and heated at high temperature, which can be used for medical catheters in the medical industry.
New Products. Commercial norms have not yet been established.
autoclavable
flexible
Anti-kink

General Information			
Features	Good flexibility		
	Good color stability		
	Kink resistance		
Uses	Pipe fittings		
	Medical/nursing supplies		
Agency Ratings	ISO 10993 Part 4		
	ISO 10993 Part 5		
	USP Class VI		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.3 - 1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	68		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 23°C	3.10	MPa	ASTM D412
300% strain, 23°C	4.55	MPa	ASTM D412
Tensile Strength (Break, 23°C)	6.00	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	470	%	ASTM D412
Compression Set			ASTM D395B
22°C, 22 hr	17	%	ASTM D395B
70°C, 22 hr	58	%	ASTM D395B
100°C, 22 hr	69	%	ASTM D395B

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity			ASTM D3835
200°C, 1340 sec ⁻¹	52.0	Pa·s	ASTM D3835
200°C, 11200 sec ⁻¹	10.0	Pa·s	ASTM D3835
Extrusion	Nominal Value	Unit	
Melt Temperature	182 - 204	°C	
Die Temperature	182 - 216	°C	
Extrusion instructions			

Rear: 330 to 370F Center: 350 to 400F Front: 360 to 420F 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 MT317. 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 MT317.

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