Versaflex™ HC MT222

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versaflex™HC MT222 is a transparent high-performance TPE material, converted to medical catheter research and development. VersaflexTM HC MT222 adopts a special formula and does not use any plasticizer.
New Products. Commercial norms have not yet been established.

- Flexible
- Special formula without plasticizer
- High transparency

General Information			
Features	Good flexibility Definition, high		
Uses	Pipe fittings Medical/nursing supplies		
Agency Ratings	FDA not rated ISO 10993 Part 4 ISO 10993 Part 5 USP Class VI		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.878	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.4 - 2.0	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	66		ASTM D2240
Films	**Nominal Value**	**Unit**	**Test Method**
Oxygen Permeability (21°C, 1900 µm)	590	cm³·mm/m²/atm/24 hr	ASTM D3985
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ASTM D412
100% strain, 23°C [2]	2.30	MPa	ASTM D412
300% strain, 23°C [3]	4.34	MPa	ASTM D412
Tensile Strength (Break, 23°C)	6.19	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	430	%	ASTM D412
Compression Set			ASTM D395B
22°C, 22 hr	14	%	ASTM D395B

45°C, 22 hr	55	%	ASTM D395B
70°C, 22 hr	74	%	ASTM D395B

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity			ASTM D3835
200°C, 1340 sec^-1	190	Pa·s	ASTM D3835
200°C, 11200 sec^-1	39.0	Pa·s	ASTM D3835

Extrusion	Nominal Value	Unit
Melt Temperature	182 - 204	°C
Die Temperature	171 - 199	°C

Extrusion instructions

Color concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Versaflex™ HC MT222. 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).Drying is not RequiredRear: 330F-370FCenter: 350F-400FFront: 360F-420FScrew: 100-500RPM

NOTE	
1.	2 hours
2.	Mouth die c
3.	C mould

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Recommended distributors for this material

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