

## PolyOne Versaflex™ CL E95 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

### Material Notes:

Versaflex™ CL E95 is an exceptional clarity, high performance and autoclavable solution ideal for healthcare and food packaging.

Versaflex™ CL E95 is also formulated without the use of plasticizers. New Product. Commercial specifications have not been established. -

Flexible - Formulated without Plasticizers - High ClarityColor concentrates with polypropylene (PP), ethylene vinyl acetate (EVA), or low density polyethylene (PE) carriers are most suitable for coloring Versaflex™ CL E95. 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 Required. Rear Zone = 330-370F Center Zone

= 350-400F Front Zone = 360-420F Screw Speed = 100-500 RPM Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Versaflex-CL-E95-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-Versaflex-CL-E95-Thermoplastic-Elastomer-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.898 g/cc	0.898 g/cc	ASTM D792
Oxygen Transmission	150 cc-mm/m <sup>2</sup> -24hr-atm @Thickness 0.120 mm, Temperature 21.0 °C	381 cc-mil/100 in <sup>2</sup> - 24hr-atm @Thickness 0.00472 in, Temperature 69.8 °F	ASTM D3985
Oxygen Transmission Rate	1200 cc/m <sup>2</sup> /day @Thickness 0.120 mm, Temperature 21.0 °C	77.3 cc/100 in <sup>2</sup> /day @Thickness 0.00472 in, Temperature 69.8 °F	ASTM D3985
Viscosity	30000 cP @Shear Rate 11200 1/s, Temperature 200 °C	30000 cP @Shear Rate 11200 1/s, Temperature 392 °F	ASTM D3835
	138000 cP @Shear Rate 1340 1/s, Temperature 200 °C	138000 cP @Shear Rate 1340 1/s, Temperature 392 °F	ASTM D3835

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	10 sec; ASTM D2240
Tensile Strength at Break	17.2 MPa @Temperature 23.0 °C	2490 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
	11.6 MPa	1680 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	Die C2 hr; ASTM D412
	11.9 MPa	1730 psi	Die C2 hr; ASTM D412
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	
Elongation at Break	580 %	580 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	126 kN/m	719 pli	ASTM D624
Compression Set	38 %	38 %	ASTM D395B
	@Temperature 22.0 °C, Time 79200 sec	@Temperature 71.6 °F, Time 22.0 hour	
	66 %	66 %	ASTM D395B
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	71 %	71 %	ASTM D395B
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Die Temperature	171 - 199 °C	340 - 390 °F	
Melt Temperature	182 - 204 °C	360 - 399 °F	

Descriptive Properties	Value	Comments
Agency Ratings	FDA 21 CFR 177.1210	Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.
	ISO 10993 Part 4	
	ISO 10993 Part 5	
	USP Class VI	
Appearance	Clear/Transparent	
Features	Good Flexibility	
	High Clarity	
Forms	Pellets	
Generic Material	TPE	

Descriptive Properties	Thermoplastic Elastomer Value (TPE)	Comments
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Extrusion	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Bottles	
	Film	
	Medical/Healthcare Applications	
	Personal Care	

## Contact Songhan Plastic Technology Co.,Ltd.

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