

PolyOne Versaflex™ OM 9-802CL Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Versaflex™ OM 9-802CL is a clear, soft touch TPE designed to bond to the following thermoplastics: PC, ABS, PC/ABS and copolyester. New Product. Commercial specifications have not been established. - Excellent Adhesion to PC, ABS, PC/ABS, Copolyester - Soft Touch Feel - Water Clarity Color concentrates with Versaflex™ OM 9-802CL as the carrier are most suitable for coloring this product. If an OM 9-802CL based color concentrate is desired, it is important that the chosen color house have underwater pelletization capabilities. Typical loadings for color concentrates are 1% to 5% by weight. A high color match consistency can be obtained by the use of precolored compounds available from GLS. Polypropylene (PP) based color concentrates are not recommended because they lead to poor dispersion, loss of clarity and can significantly affect adhesion of the TPE to the substrate. Concentrates based on other TPEs 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) polystyrene (PS) or polypropylene (PP). Regrind levels up to 20% can be used with Versaflex™ OM 9-802CL with minimal property loss, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should remain as low as possible. The final determination of regrind effectiveness should be determined by the customer. Drying is not Required Injection Speed: 1 to 3 in/sec 1st Stage - Boost Pressure: 300 to 600 psi 2nd Stage - Hold Pressure: 30% of Boost Hold Time (Thick Part): 4 to 10 sec Hold Time (Thin Part): 1 to 3 sec Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Versaflex-OM-9-802CL-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.928 g/cc	0.928 g/cc	ASTM D792
Viscosity	16000 cP	16000 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.0040 - 0.011 cm/cm	0.0040 - 0.011 in/in	ASTM D955
Melt Flow	24 g/10 min	24 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	100 g/10 min	100 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	10 sec; ASTM D2240
Tensile Strength at Break	6.41 MPa	930 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	1.59 MPa Metric	231 psi English	Comments
Tensile Stress	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	Die C2 hr, ASTM D412
	2.14 MPa	310 psi	Die C2 hr; ASTM D412
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	
Elongation at Break	1100 %	1100 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	24.5 kN/m	140 pli	ASTM D624
Compression Set	20 %	20 %	ASTM D395B
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	99 %	99 %	ASTM D395B
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 188 °C	331 - 370 °F	
Middle Barrel Temperature	182 - 204 °C	360 - 399 °F	
Front Barrel Temperature	193 - 210 °C	379 - 410 °F	
Nozzle Temperature	193 - 210 °C	379 - 410 °F	
Mold Temperature	21.1 - 26.7 °C	70.0 - 80.1 °F	
Back Pressure	0.000 - 0.621 MPa	0.000 - 90.1 psi	
Screw Speed	25 - 75 rpm	25 - 75 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	
Appearance	Clear/Transparent	
Features	Good Colorability	
	High Clarity	
Forms	Pellets	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	

Descriptive Properties Manufacturer / Supplier	Value O.S. Thermoplastic Elastomers	Comments
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Suggested Max Regrind	20%	
Uses	Consumer Applications	
	Flexible Grips	
	Overmolding	
	Soft Touch Applications	

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