

PolyOne Versaflex™ OM 9-801N Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Versaflex™ OM 9-801N is designed for overmolding onto a wide variety of substrates including PC, ABS, PC/ABS, HIPS, PPO, acetal, acrylic and copolyester. - Bonds to a Variety Of Substrates - Rubbery Feel - Soft Touch - Very Good Surface AestheticsColor concentrates with polyethylene (PE) or EVA carriers are most suitable for coloring Versaflex™ OM 9-801N. Typical letdown ratios are 50:1 to 25:1 - loading levels should be as low as possible to minimize the effect on adhesion. A high color match consistency can be obtained by the use of precolored compounds available from GLS. Concentrates based on PVC should not be used. The final determination of color concentrate suitability should be determined by customer trials. 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 9-801N 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. Versaflex™ OM 9-801N has good melt stability. Maximum residence times may vary, depending on the size of the barrel. Generally, the barrel should be emptied if it is idle for periods of 5 - 8 minutes or longer. Drying is not Required Injection Speed: 0.5 to 3 in/sec 1st Stage - Boost Pressure: 500 to 900 psi 2nd Stage - Hold Pressure: 70% of Boost Hold Time (Thick Part): 4 to 10 sec Hold Time (Thin Part): 1 to 3 secInformation provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Versaflex-OM-9-801N-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Viscosity	15600 cP @Shear Rate 11200 1/s, Temperature 200 °C	15600 cP @Shear Rate 11200 1/s, Temperature 392 °F	ASTM D3835
Linear Mold Shrinkage, Flow	0.0030 - 0.0090 cm/cm	0.0030 - 0.0090 in/in	ASTM D955
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 190 °C	22 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	100 g/10 min @Load 5.00 kg, Temperature 200 °C	100 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	47	47	10 sec; ASTM D2240
Tensile Strength at Break	4.49 MPa @Temperature 23.0 °C	651 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
	1.45 MPa	210 psi	

Tensile Strength Mechanical Properties	Metric @Strain 100 %, Temperature 23.0 °C	English @Strain 100 %, Temperature 73.4 °F	Die C2 hr; ASTM D412 Comments
	1.80 MPa	261 psi	Die C2 hr; ASTM D412
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	
Elongation at Break	820 %	820 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	17.5 kN/m	99.9 pli	ASTM D624
Compression Set	43 %	43 %	ASTM D395B
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	182 - 193 °C	360 - 379 °F	
Middle Barrel Temperature	188 - 202 °C	370 - 396 °F	
Front Barrel Temperature	193 - 204 °C	379 - 399 °F	
Nozzle Temperature	199 - 218 °C	390 - 424 °F	
Mold Temperature	21.1 - 37.8 °C	70.0 - 100 °F	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	
Screw Speed	75 - 125 rpm	75 - 125 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	
	UL 94 .QMFZ2.E76261	
Appearance	Natural Color	
Automotive Specifications	FMVSS 302	
Features	Good Surface Finish	
Forms	Pellets	

Generic Material Descriptive Properties	TPE Value	Comments
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
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	Flexible Grips	
	General Purpose	
	Overmolding	
	Soft Touch Applications	
	Sporting Goods	

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