

PolyOne Versaflex™ OM 3060-1 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Versaflex™ OM 3060-1 is a clear, medical compliant overmold designed to adhere to multiple substrates. - Excellent bond to PC, ABS, PC/ABS, PC/PETG, and PC/PBT - Rubber Feel - Soft Touch Versaflex™ OM 3060-1 can use a variety of color concentrates. The type of color concentrates most suitable for the application are dependent upon the grade and the specific substrate materials, including color concentrate and filler levels. It should be noted that some color concentrates may affect adhesion to the substrate, resulting in decreased peel strength. Concentrates based on PVC should not be used. The final determination of color concentrate suitable 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 or polypropylene. Versaflex™ OM 3060-1 can use regrind up to 20% with minimal property losses, 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 3060-1 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 8 - 10 minutes or longer. Drying is not Required

Injection Speed: 1 to 5 in/sec 1st Stage - Boost Pressure: 180 to 580 psi 2nd Stage - Hold Pressure: 50% 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-3060-1-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.898 g/cc	0.898 g/cc	ASTM D792
Viscosity	13000 cP @Shear Rate 11200 1/s, Temperature 200 °C	13000 cP @Shear Rate 11200 1/s, Temperature 392 °F	ASTM D3835
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59 @Temperature 23.0 °C	59 @Temperature 73.4 °F	10 sec; ASTM D2240
Tensile Strength at Break	3.45 MPa @Temperature 23.0 °C	500 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tensile Stress	2.48 MPa @Strain 300 %, Temperature 23.0 °C	360 psi @Strain 300 %, Temperature 73.4 °F	Die C2 hr; ASTM D412
Elongation at Break	480 % @Temperature 23.0 °C	480 % @Temperature 73.4 °F	Die C2 hr; ASTM D412

Tear Strength Mechanical Properties	31.5 kN/m Metric	180 psi English	ASTM D624 Comments
Compression Set	33 % @Temperature 23.0 °C, Time 79200 sec	33 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 - 216 °C	351 - 421 °F	
Middle Barrel Temperature	182 - 221 °C	360 - 430 °F	
Front Barrel Temperature	193 - 232 °C	379 - 450 °F	
Nozzle Temperature	204 - 243 °C	399 - 469 °F	
Mold Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	
Back Pressure	0.517 - 1.21 MPa	75.0 - 175 psi	
Screw Speed	75 - 125 rpm	75 - 125 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	
	ISO 10993 Part 4	
	ISO 10993 Part 5	
	UL 94 .QMFZ2.E76261	
	USP Class VI	
Appearance	Clear/Transparent	
Features	Good Colorability	
	Good Moldability	
	Good Processability	
	Good Processing Stability	
	High Clarity	
Forms	Pellets	

Descriptive Properties	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	Consumer Applications	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Overmolding	
	Personal Care	
	Transparent or Translucent Parts	
	Transparent Parts	

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