

PolyOne Versaflex™ OM 6160-9 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Versaflex™ OM 6160-9 is specifically designed to bond to a variety of standard and modified nylon materials, including those which are glass-filled, heat stabilized and/or impact modified. - Excellent Surface Appearance - Outstanding Adhesion in Both Two-Shot and Insert Molding Processes - Soft, Rubbery Grip - Very Easy to Process
Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP). Regrind levels up to 20% can be used with Versaflex™ OM 6160-9 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 6160-9 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: 2.5 to 5 in/sec 1st Stage - Boost Pressure: 400 to 600 psi 2nd Stage - Hold Pressure: 30% of Boost
Hold Time (Thick Part): 3 to 6 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-6160-9-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Viscosity	19600 cP	19600 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.017 - 0.021 cm/cm	0.017 - 0.021 in/in	ASTM D955
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	38 g/10 min	38 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	60	60	10 sec; ASTM D2240
Tensile Strength at Break	3.06 MPa	444 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	2.28 MPa	331 psi	Die C2 hr; ASTM D412
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	
	2.95 MPa	428 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	Die C2 hr; ASTM D412
Elongation at Break	370 % @Temperature 23.0 °C	370 % @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tear Strength	24.5 kN/m	140 pli	ASTM D624
Compression Set	31 % @Temperature 23.0 °C, Time 79200 sec	31 % @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	166 - 193 °C	331 - 379 °F	
Middle Barrel Temperature	249 - 260 °C	480 - 500 °F	
Front Barrel Temperature	254 - 277 °C	489 - 531 °F	
Nozzle Temperature	254 - 277 °C	489 - 531 °F	
Melt Temperature	260 - 277 °C	500 - 531 °F	
Mold Temperature	15.6 - 37.8 °C	60.1 - 100 °F	
Back Pressure	0.000 - 0.689 MPa	0.000 - 99.9 psi	
Screw Speed	75 - 175 rpm	75 - 175 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	UL 94 .QMFZ2.E76261	
Appearance	Black	
Features	Good Adhesion	
	Good Processability	
	Good Surface Finish	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	

Manufacturer / Supplier Descriptive Properties	GLS Thermoplastic Elastomers Value	Comments
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Suggested Max Regrind	20%	

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