

## PolyOne Versaflex™ OM 1060X-9 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

Versaflex™ OM 1060X-9 is an overmolding TPE with very good adhesion to PC or ABS-based plastics. - Excellent Bond to PC, ABS, PC/ABS - Good Surface Aesthetics - Rubbery Feel - Soft Touch  
 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 1060X-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 1060X-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 5 - 8 minutes or longer. Drying is not Required  
 Injection Speed: 1 to 3 in/sec 1st Stage - Boost Pressure: 350 to 800 psi 2nd Stage - Hold Pressure: 30% of Boost Hold Time (Thick Part): 3 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-1060X-9-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-Versaflex-OM-1060X-9-Thermoplastic-Elastomer-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.928 g/cc	0.928 g/cc	ASTM D792
Viscosity	11700 cP	11700 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.0080 - 0.013 cm/cm	0.0080 - 0.013 in/in	ASTM D955
Melt Flow	19 g/10 min	19 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	29 g/10 min	29 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	3.79 MPa	550 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	2.14 MPa	310 psi	Die C2 hr; ASTM D412
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	
	3.24 MPa	470 psi	Die C2 hr; ASTM D412

Mechanical Properties	Metric @Strain 300 %, Temperature 23.0 °C	English @Strain 300 %, Temperature 73.4 °F	Comments
Elongation at Break	510 % @Temperature 23.0 °C	510 % @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tear Strength	26.3 kN/m	150 pli	ASTM D624
Compression Set	29 % @Temperature 23.0 °C, Time 79200 sec	29 % @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 - 188 °C	331 - 370 °F	
Middle Barrel Temperature	182 - 193 °C	360 - 379 °F	
Front Barrel Temperature	193 - 227 °C	379 - 441 °F	
Nozzle Temperature	199 - 232 °C	390 - 450 °F	
Melt Temperature	193 - 227 °C	379 - 441 °F	
Mold Temperature	21.1 - 37.8 °C	70.0 - 100 °F	
Back Pressure	0.000 - 0.862 MPa	0.000 - 125 psi	
Screw Speed	75 - 125 rpm	75 - 125 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	UL 94 .QMFZ2.E76261	
Appearance	Black	
Features	Good Moldability	
	Good Processability	
	Good Processing Stability	
	Good Surface Finish	
Forms	Pellets	
Generic Material	TPE	

Descriptive Properties	Value	Comments
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	
	Flexible Grips	
	Overmolding	
	Power/Other Tools	

## Contact Songhan Plastic Technology Co.,Ltd.

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