

## PolyOne Versaflex™ OM 6059-9 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

### Material Notes:

Versaflex™ OM 6059-9 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. - Exceptional Colorability - Outstanding Adhesion in Both Two-Shot and Insert Molding Processes - Soft, Rubbery Grip - Very Easy to ProcessPurge 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 6059-9 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 6059-9 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: 3 to 6 in/sec 1st Stage - Boost Pressure: 300 to 800 psi 2nd Stage - Hold Pressure: 0% of Boost Hold Time (Thick Part): 0 to 4 sec Hold Time (Thin Part): 0 to 3 secInformation provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Versaflex-OM-6059-9-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-Versaflex-OM-6059-9-Thermoplastic-Elastomer-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Viscosity	16900 cP	16900 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
	75000 cP	75000 cP	ASTM D3835
	@Shear Rate 1340 1/s, Temperature 200 °C	@Shear Rate 1340 1/s, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	10 sec; ASTM D2240
Tensile Strength at Break	2.45 MPa	355 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	1.75 MPa	254 psi	Die C2 hr; ASTM D412
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	
Elongation at Break	290 %	290 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compression Set	14 %	14 %	ASTM D395B
	@Temperature 22.0 °C, Time 79200 sec	@Temperature 71.6 °F, Time 22.0 hour	

Mechanical Properties	Metric	English	Comments
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °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	182 - 204 °C	360 - 399 °F	
Middle Barrel Temperature	243 - 266 °C	469 - 511 °F	
Front Barrel Temperature	249 - 271 °C	480 - 520 °F	
Nozzle Temperature	254 - 277 °C	489 - 531 °F	
Melt Temperature	249 - 271 °C	480 - 520 °F	
Mold Temperature	12.8 - 29.4 °C	55.0 - 84.9 °F	
Back Pressure	0.000 - 0.552 MPa	0.000 - 80.1 psi	
Screw Speed	80 - 120 rpm	80 - 120 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	UL 94 .QMFZ2.E76261	
Appearance	Black	
Features	Good Adhesion	
	Good Colorability	
	Good Processability	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	

Descriptive Properties	Value	Comments
	North America	
	South America	
Suggested Max Regrind	20%	

## Contact Songhan Plastic Technology Co.,Ltd.

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