



Versaflex™ OM 1060X-9

Thermoplastic Elastomer

Key Characteristics

Product Description

- 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

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Moldability • Good Processability • Good Processing Stability • Good Surface Finish		
Uses	• Consumer Applications • Electrical/Electronic Applications	• Flexible Grips • Overmolding	• Power/Other Tools
Agency Ratings	• UL 94 .QMFZ2.E76261		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	0.930	0.928 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	17 to 27 g/10 min	17 to 27 g/10 min	
200°C/5.0 kg	26 to 36 g/10 min	26 to 36 g/10 min	
Molding Shrinkage - Flow	8.0E-3 to 0.013 in/in	0.80 to 1.3 %	ASTM D955
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{2,3} (100% Strain, 73°F (23°C))	310 psi	2.14 MPa	ASTM D412
Tensile Stress ^{2,3} (300% Strain, 73°F (23°C))	470 psi	3.24 MPa	ASTM D412
Tensile Strength ^{2,3} (Break, 73°F (23°C))	550 psi	3.79 MPa	ASTM D412
Tensile Elongation ^{2,3} (Break, 73°F (23°C))	510 %	510 %	ASTM D412
Tear Strength	150 lbf/in	26.3 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	29 %	29 %	ASTM D395B
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	60	60	ASTM D2240
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0591 in (1.50 mm))	HB	HB	UL 94
Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec ⁻¹	11.7 Pa·s	11.7 Pa·s	

Copyright © 2014 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	330 to 370 °F	166 to 188 °C
Middle Temperature	360 to 380 °F	182 to 193 °C
Front Temperature	380 to 440 °F	193 to 227 °C
Nozzle Temperature	390 to 450 °F	199 to 232 °C
Processing (Melt) Temp	380 to 440 °F	193 to 227 °C
Mold Temperature	70.0 to 100 °F	21.1 to 37.8 °C
Back Pressure	0.00 to 125 psi	0.00 to 0.862 MPa
Screw Speed	75 to 125 rpm	75 to 125 rpm

Injection Notes

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

Notes

¹ Typical values are not to be construed as specifications.

² Die C

³ 2 hr

CONTACT INFORMATION

Americas

United States - Avon Lake
 +1 440 930 1000

United States - McHenry
 +1 815 385 8500

Asia

China - Guangzhou
 +86 20 8732 7260

China - Shenzhen
 +86 755 2969 2888

China - Suzhou
 +86 512 6823 24 38

China - Suzhou
 +86 512 6265 2600

Hong Kong -
 +852 2690 5332

Taiwan - Yonghe City,
 +886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
 +49 7225 6802 0

Spain - Barbastró (Huesca)
 +34 974 310 314

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas

33587 Walker Road
 Avon Lake, Ohio 44012
 United States
 +1 440 930 1000
 +1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road
 Z.J Hi-tech Park, Pudong
 Shanghai, 201203, China
 +86 21 5080 1188

PolyOne Europe

6 Giällewee
 +352 269 050 35

Copyright ©, 2014 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.