



Versaflex™ OM 3060-1

Thermoplastic Elastomer

Key Characteristics

Product Description

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

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Colorability • Good Moldability	• Good Processability • Good Processing Stability	• High Clarity
Uses	• Consumer Applications • Electrical/Electronic Applications • Medical/Healthcare Applications	• Overmolding • Personal Care • Transparent or Translucent Parts	• Transparent Parts
Agency Ratings	• FDA Unspecified Rating • ISO 10993 Part 4	• ISO 10993 Part 5 • UL 94 .QMFZ2.E76261	• USP Class VI
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	0.900	0.898 g/cm ³	ASTM D792
Molding Shrinkage - Flow	8.0E-3 to 0.012 in/in	0.80 to 1.2 %	ASTM D955
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{2, 3} (300% Strain, 73°F (23°C))	491 psi	3.39 MPa	ASTM D412
Tensile Strength ^{2, 3} (Break, 73°F (23°C))	652 psi	4.50 MPa	ASTM D412
Tensile Elongation ^{2, 3} (Break, 73°F (23°C))	560 %	560 %	ASTM D412
Tear Strength	180 lbf/in	31.5 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	33 %	33 %	ASTM D395B
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 10 sec, 73°F (23°C)	59	59	
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	13.0 Pa·s	13.0 Pa·s	

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	350 to 420 °F	177 to 216 °C
Middle Temperature	360 to 430 °F	182 to 221 °C
Front Temperature	380 to 450 °F	193 to 232 °C
Nozzle Temperature	400 to 470 °F	204 to 243 °C
Mold Temperature	70.0 to 90.0 °F	21.1 to 32.2 °C
Back Pressure	75.0 to 175 psi	0.517 to 1.21 MPa
Screw Speed	75 to 125 rpm	75 to 125 rpm

Injection Notes

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 is therefore advisable to contact your GLS Technical Representative to discuss your particular application. 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 suitability 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 (PE) or polypropylene (PP).

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

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 - Barbastro (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

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