



Versaflex™ OM 2262

Thermoplastic Elastomer

Key Characteristics

Product Description

Versaflex™ OM 2262 is a performance overmolding grade with general FDA compliance. This product is designed for both insert and two-shot molding onto Eastman Tritan™ copolyester as well as ABS, PC, and PC/ABS substrates.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability	• Good Flow • Good Moldability	• Pleasing Surface Appearance
Uses	• Consumer Applications • Drink Lids • Household Goods	• Kitchenware • Non-specific Food Applications • Overmolding	• Soft Touch Applications
Agency Ratings	• FDA Unspecified Rating ¹		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.18	1.18	ASTM D792
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ^{3, 4} (100% Strain, 73°F (23°C))	370 psi	2.55 MPa	ASTM D412
Tensile Strength ^{3, 4} (Break, 73°F (23°C))	850 psi	5.86 MPa	ASTM D412
Tensile Elongation ^{3, 4} (Break, 73°F (23°C))	680 %	680 %	ASTM D412
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness Shore A, 10 sec, 70°F (21°C)	65	65	ASTM D2240
Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity 392°F (200°C), 11200 sec ⁻¹	19.8 Pa·s	19.8 Pa·s	ASTM D3835

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	125 to 130 °F	51.7 to 54.4 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Suggested Max Regrind	20 %	20 %
Rear Temperature	330 to 370 °F	166 to 188 °C
Middle Temperature	350 to 390 °F	177 to 199 °C
Front Temperature	360 to 400 °F	182 to 204 °C
Nozzle Temperature	380 to 420 °F	193 to 216 °C
Processing (Melt) Temp	380 to 420 °F	193 to 216 °C

Copyright © 2015 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.

Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	50.0 to 90.0 °F	10.0 to 32.2 °C
Back Pressure	0.00 to 80.0 psi	0.00 to 0.552 MPa
Screw Speed	50 to 100 rpm	50 to 100 rpm

Injection Notes

Color concentrates with EVA or LDPE carrier are most suitable for coloring Versaflex™ OM 2262. Typical letdown ratios are 50:1 to 25:1 - loading levels should be as low as possible to minimize the effect on adhesion. A high color match consistency can be obtained by the use of precolored compounds available from GLS. 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).

Regrind levels up to 20% can be used with Versaflex™ OM 2262 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 2262 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.

Injection Speed: 0.5 to 2.5 in/sec
 1st Stage - Boost Pressure: 200 to 900 psi
 2nd Stage - Hold Pressure: 20-40% of Boost
 Hold Time (Thick Part): 4 to 10 sec
 Hold Time (Thin Part): 1 to 4 sec

Notes

¹ Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.

² Typical values are not to be construed as specifications.

³ Die C

⁴ 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 - Barbaastro (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 Giallewee
 +352 269 050 35

Copyright ©, 2015 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.