

## PolyOne Versaflex™ OM 2262 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

### Material Notes:

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. 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 Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Versaflex-OM-2262-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-Versaflex-OM-2262-Thermoplastic-Elastomer-TPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Viscosity	21300 cP	21300 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Maximum Moisture Content	0.10	0.10	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68	68	10 sec; ASTM D2240
Tensile Strength at Break	8.82 MPa	1280 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Stress	2.60 MPa	377 psi	Die C2 hr; ASTM D412
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	
Elongation at Break	660 %	660 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 188 °C	331 - 370 °F	
Middle Barrel Temperature	177 - 199 °C	351 - 390 °F	
Front Barrel Temperature	182 - 204 °C	360 - 399 °F	
Nozzle Temperature	193 - 216 °C	379 - 421 °F	
Melt Temperature	193 - 216 °C	379 - 421 °F	
Mold Temperature	10.0 - 32.2 °C	50.0 - 90.0 °F	
Drying Temperature	51.7 - 54.4 °C	125 - 130 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	
Back Pressure	0.000 - 0.552 MPa	0.000 - 80.1 psi	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	Please contact GLS Thermoplastic Elastomers for a copy of the FDA compliance letter.
Appearance	Natural Color	
Features	Good Adhesion	
	Good Colorability	
	Good Flow	
	Good Moldability	
	Pleasing Surface Appearance	
Forms	Pellets	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	

Descriptive Properties	Asia Pacific Value	Comments
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Suggested Max Regrind	20%	
Uses	Consumer Applications	
	Drink Lids	
	Household Goods	
	Kitchenware	
	Non-specific Food Applications	
	Overmolding	
	Soft Touch Applications	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China