Versaflex™ OM 2262

Thermoplastic Elastomer

PolyOne Corporation

Message:

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 Information			
Features	Good formability Good liquidity Good coloring Good adhesion Good appearance		
Uses	overmolding Kitchen utensils Non-specific food applications Household goods Soft touch application Consumer goods application field Beverage lid		
Agency Ratings	FDA Not Rated 2		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shaw A, 10 seconds, 21°C)	65		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain, 23°C)	2.55	MPa	ASTM D412
Tensile Strength (Break, 23°C)	5.86	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	680	%	ASTM D412
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 11200 sec^-1)	19.8	Pa·s	ASTM D3835
Injection	**Nominal Value**	**Unit**	
Drying Temperature	51.7 - 54.4	°C	
Drying Time	3.0 - 4.0	hr	

Suggested Max Moisture	0.10	%
Suggested Max Regrind	20	%
Rear Temperature	166 - 188	°C
Middle Temperature	177 - 199	°C
Front Temperature	182 - 204	°C
Nozzle Temperature	193 - 216	°C
Processing (Melt) Temp	193 - 216	°C
Mold Temperature	10.0 - 32.2	°C
Back Pressure	0.00 - 0.552	MPa
Screw Speed	50 - 100	rpm

Injection instructions

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 poypropylene (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/sec1st Stage - Boost Pressure: 200 to 900 psi2nd Stage - Hold Pressure: 20-40% of BoostHold Time (Thick Part): 4 to 10 secHold Time (Thin Part): 1 to 4 sec

Recommended distributors for this material

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