PolyOne Versaflex™ 9555-9 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Versaflex™ 9555-9 has exceptional flow properties and surface aesthetics for a variety of applications. - Excellent Flow for Long, Thin Flow Paths - Exceptional Colorability - Overmold Adhesion to Polypropylene - Superior Surface AestheticsPurge 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™ 9555-9 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™ 9555-9 has good melt stability. Empty the barrel for idle periods of fifteen (15) mintes or longer. Drying is not Required Injection Speed: 1 to 5 in/sec 1st Stage - Boost Pressure: 300 to 700 psi 2nd Stage - Hold Pressure: 30% of Boost Hold Time (Thick Part): 4 to 10 sec Hold Time (Thin Part): 1 to 3 secInformation provided by PolyOne

Order this product through the following link:
http://www.lookpolymers.com/polymer_PolyOne-Versaflex-9555-9-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.988 g/cc	0.988 g/cc	ASTM D792
Viscosity	7200 cP @Shear Rate 11200 1/s, Temperature 200 °C	7200 cP @Shear Rate 11200 1/s, Temperature 392 °F	ASTM D3835
	35000 cP @Shear Rate 1340 1/s, Temperature 200 °C	35000 cP @Shear Rate 1340 1/s, Temperature 392 °F	ASTM D3835
Linear Mold Shrinkage, Flow	0.0090 - 0.017 cm/cm	0.0090 - 0.017 in/in	ASTM D955
Melt Flow	4.1 g/10 min @Load 2.16 kg, Temperature 190 °C	4.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	27 g/10 min @Load 5.00 kg, Temperature 200 °C	27 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	53	53	10 sec; ASTM D2240
Tensile Strength at Break	3.90 MPa @Temperature 23.0 °C	566 psi @Temperature 73.4 °F	Die C2 hr; ASTM D412
Tensile Stress	1.45 MPa	210 psi	Die C2 hr; ASTM D412

Mechanical Properties	Metric	English	Comments
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	
	2.31 MPa @Strain 300 %, Temperature 23.0 °C	335 psi @Strain 300 %, Temperature 73.4 °F	Die C2 hr; ASTM D412
Elongation at Break	580 % @Temperature 23.0 °C	580 % @Temperature 73.4 °F	Die C2 hr; ASTM D412
Compression Set	20 % @Temperature 23.0 °C, Time 79200 sec	20 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	149 - 188 °C	300 - 370 °F	
Middle Barrel Temperature	160 - 199 °C	320 - 390 °F	
Front Barrel Temperature	171 - 210 °C	340 - 410 °F	
Nozzle Temperature	171 - 210 °C	340 - 410 °F	
Mold Temperature	15.6 - 26.7 °C	60.1 - 80.1 °F	
Back Pressure	0.000 - 0.689 MPa	0.000 - 99.9 psi	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	
Appearance	Black	
Features	Good Colorability	
	Good Flow	
	Good Surface Finish	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Value	Comments
	Europe	
	North America	
	South America	
Suggested Max Regrind	20%	

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