

PolyOne Versaflex™ VDT 4132 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Versaflex™ VDT 4132 is designed to create vibration damping. - Excellent Vibration DampingRear = 350-370F Middle = 375-400F Front = 375-400F Nozzle = 365-380F Screw speed = 100-500rpmPurge 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™ VDT 4132 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™ VDT 4132 has excellent 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 range: 1-5 in/sec 2nd Stage hold: 20-40% of boost Hold time (thick) range: 4-10 sec Hold time (thin) range: 1-4 secInformation provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Versaflex-VDT-4132-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.898 g/cc	0.898 g/cc	ASTM D792
Viscosity	20000 cP	20000 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	104000 cP	104000 cP	ASTM D3835
	@Shear Rate 1340 1/s, Temperature 200 °C	@Shear Rate 1340 1/s, Temperature 392 °F	
Linear Mold Shrinkage, Flow	0.017 - 0.023 cm/cm	0.017 - 0.023 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	32	32	10 sec; ASTM D2240
Tensile Stress	0.517 MPa	75.0 psi	Die C2 hr; ASTM D412
	@Strain 100 %, Temperature 23.0 °C	@Strain 100 %, Temperature 73.4 °F	
Tensile Strength, Yield	0.951 MPa	138 psi	Die C2 hr; ASTM D412
	@Strain 300 %, Temperature 23.0 °C	@Strain 300 %, Temperature 73.4 °F	
Tensile Strength, Yield	6.16 MPa	893 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	900 %	900 %	Die C2 hr; ASTM D412

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Tear Strength	14.0 kN/m	79.9 pli	ASTM D624
Compression Set	12 % @Temperature 23.0 °C, Time 79200 sec	12 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	166 - 182 °C	331 - 360 °F	
Middle Barrel Temperature	182 - 204 °C	360 - 399 °F	
Front Barrel Temperature	188 - 210 °C	370 - 410 °F	
Nozzle Temperature	188 - 210 °C	370 - 410 °F	
Die Temperature	185 - 193 °C	365 - 379 °F	
Melt Temperature	185 - 199 °C	365 - 390 °F	
	193 - 221 °C	379 - 430 °F	
Mold Temperature	15.6 - 26.7 °C	60.1 - 80.1 °F	
Injection Pressure	0.689 - 5.52 MPa	99.9 - 801 psi	
Back Pressure	0.000 - 0.552 MPa	0.000 - 80.1 psi	
Screw Speed	80 - 120 rpm	80 - 120 rpm	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Features	Vibration Damping	
Forms	Pellets	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Common Value	Comments
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Automotive Applications	
	Business Equipment	
	Consumer Applications	
	Electrical/Electronic Applications	
	Flexible Grips	
	Power/Other Tools	
	Soft Touch Applications	
	Sporting Goods	

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