Versaflex™ VDT 4132

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versaflex™ VDT 4132 is designed to create vibration damping.
Excellent Vibration Damping

General Information	
Features	Shock absorption
Uses	Electrical/Electronic Applications Power/other tools Home appliance components Application in Automobile Field Soft touch application Soft handle Business equipment Sporting goods Consumer goods application field
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion Injection molding
Multi-Point Data	Vibration Damping TPE Frequency Sweep Vibration Damping TPE Temperature Sweep

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.7 - 2.3	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	32		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ASTM D412
100% strain, 23°C [2]	0.517	MPa	ASTM D412
300% strain, 23°C [3]	0.951	MPa	ASTM D412
Tensile Strength (Yield, 23°C)	6.16	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	900	%	ASTM D412
Tear Strength	14.0	kN/m	ASTM D624

Compression Set (23°C, 22 hr)	12	%	ASTM D395B

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity			ASTM D3835
200°C, 1340 sec^-1	104	Pa·s	ASTM D3835
200°C, 11200 sec^-1	20.0	Pa·s	ASTM D3835

Injection	Nominal Value	Unit
Rear Temperature	166 - 182	°C
Middle Temperature	182 - 204	°C
Front Temperature	188 - 210	°C
Nozzle Temperature	188 - 210	°C
Processing (Melt) Temp	193 - 221	°C
Mold Temperature	15.6 - 26.7	°C
Injection Pressure	0.689 - 5.52	MPa
Back Pressure	0.00 - 0.552	MPa
Screw Speed	80 - 120	rpm

Injection instructions
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™ 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/sec2nd Stage hold: 20-40% of boostHold time (thick) range: 4-10 secHold time (thin) range: 1-4 sec

Extrusion	Nominal Value	Unit
Melt Temperature	185 - 199	°C
Die Temperature	185 - 193	°C

Extrusion instructions
Rear = 350-370FMiddle = 375-400FFront = 375-400FNozzle = 365-380FScrew speed = 100-500rpm

NOTE	
1.	2 hr
2.	Mouth die c
3.	C mould

Recommended distributors for this material

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