

Alliance Polymers Viprene™ G50D-32U-NAT Thermoplastic Vulcanizate Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

Viprene™ G50D-32U-NAT is a UV and Heat Stabilized TVP (Thermoplastic Vulcanizate Elastomer). This material can be easily processed by extrusion or injection molding. It exhibits easy flowing characteristics. Availability: North America Additive: Heat Stabilizer and UV Stabilizer Features: Good Flow, Good UV Resistance and Heat Stabilized Appearance: Natural Color Forms: Pellets Processing Method: Extrusion and Injection Molding Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-Polymers-Viprene-G50D-32U-NAT-Thermoplastic-Vulcanizate-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 868
Tensile Strength at Break	5.40 MPa	783 psi	ISO 37
Tensile Stress	1.60 MPa	232 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
Elongation at Break	2.70 MPa	392 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Tear Strength	28.0 kN/m	160 pli	ISO 34-1
Compression Set	34 %	34 %	ASTM D3995B
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D746
Flammability, UL94	HB	HB	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	210 °C	410 °F	Gate Temperature; Extrusion
	215 - 240 °C	419 - 464 °F	
Rear Barrel Temperature	195 °C	383 °F	Injection
Middle Barrel Temperature	200 °C	392 °F	Injection
Front Barrel Temperature	205 °C	401 °F	Injection
Nozzle Temperature	210 - 240 °C	410 - 464 °F	Injection
Zone 1	195 °C	383 °F	Extrusion
Zone 2	205 °C	401 °F	Extrusion
Zone 3	210 °C	410 °F	Extrusion
Die Temperature	215 °C @Pressure 5.00 - 20.0 MPa	419 °F @Pressure 725 - 2900 psi	Extrusion
Mold Temperature	10.0 - 50.0 °C	50.0 - 122 °F	
Injection Velocity	>= 50.0 mm/sec	>= 1.97 in/sec	Injection
Drying Temperature	80.0 °C	176 °F	Injection
	80.0 °C	176 °F	Extrusion
Dry Time	3.00 hour	3.00 hour	Injection
	3.00 hour	3.00 hour	Extrusion
Back Pressure	0.300 - 0.703 MPa	43.5 - 102 psi	
Clamp Pressure	40.0 - 70.3 MPa	5800 - 10200 psi	Injection
Screw Speed	100 - 200 rpm	100 - 200 rpm	Injection

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