

Alliance Polymers Viprene™ P90A-22U-NAT Thermoplastic Vulcanizate Elastomer

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

Material Notes:

Viprene™ P90A-22U-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-P90A-22U-NAT-Thermoplastic-Vulcanizate-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ISO 868
Hardness, Shore D	38	38	ISO 868
Tensile Strength at Break	13.1 MPa	1900 psi	ISO 37
Tensile Stress	7.58 MPa @Strain 100 %	1100 psi @Strain 100 %	ISO 37
	10.1 MPa @Strain 300 %	1460 psi @Strain 300 %	ISO 37
Elongation at Break	500 %	500 %	ISO 37
Tear Strength	63.1 kN/m	360 pli	ISO 34-1
Compression Set	35 % @Temperature 70.0 °C, Time 79200 sec	35 % @Temperature 158 °F, Time 22.0 hour	ASTM D3995B

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

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Processing Temperature	205 °C	401 °F	Gate Temperature; Extrusion
	200 - 230 °C	392 - 446 °F	Injection
Rear Barrel Temperature	180 °C	356 °F	Injection
Middle Barrel Temperature	190 °C	374 °F	Injection
Front Barrel Temperature	195 °C	383 °F	Injection
Nozzle Temperature	195 - 225 °C	383 - 437 °F	Injection
Zone 1	185 °C	365 °F	Extrusion
Zone 2	195 °C	383 °F	Extrusion
Zone 3	200 °C	392 °F	Extrusion
Die Temperature	210 °C @Pressure 4.80 - 17.0 MPa	410 °F @Pressure 696 - 2470 psi	Extrusion
Mold Temperature	10.0 - 50.0 °C	50.0 - 122 °F	Injection
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	0.400 - 0.800 MPa	58.0 - 116 psi	Injection
Clamp Pressure	40.0 - 70.3 MPa	5800 - 10200 psi	Injection
Screw Speed	100 - 200 rpm	100 - 200 rpm	Injection

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