

Alliance Polymers Viprene™ P45D-22U-BLK Thermoplastic Vulcanizate Elastomer

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

Material Notes:

Viprene™ P45D-22U-BLK 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: Black 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-P45D-22U-BLK-Thermoplastic-Vulcanizate-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ISO 868
Hardness, Shore D	45	45	ISO 868
Tensile Strength at Break	15.5 MPa	2250 psi	ISO 37
Tensile Stress	8.62 MPa	1250 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	11.8 MPa	1710 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	500 %	500 %	ISO 37
Tear Strength	89.4 kN/m	510 pli	ISO 34-1
Compression Set	40 %	40 %	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	

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

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