

Viprene™ P90A-22U-NAT

Thermoplastic Vulcanizate

Alliance Polymers & Services

Message:

Viprene™ P90A-22U-NAT is a UV and Heat Stabilized TPV (thermoplastic vulcanizate elastomer). This material can be easily procesed by extrusion or injection molding. It exhibits easy flowing characteristics.

General Information			
Additive	heat stabilizer		
	UV stabilizer		
Features	Good UV resistance		
	Good liquidity		
	Thermal Stability		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A	90		ISO 868
Shaw D	38		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	7.60	MPa	ISO 37
300% strain	10.1	MPa	ISO 37
Tensile Stress (Break)	13.1	MPa	ISO 37
Tensile Elongation (Break)	500	%	ISO 37
Tear Strength	63	kN/m	ISO 34-1
Compression Set (70°C, 22 hr)	35	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	HB		UL 94
1.50 mm	HB		UL 94

3.00 mm	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Rear Temperature	185	°C
Middle Temperature	190	°C
Front Temperature	195	°C
Nozzle Temperature	195 - 225	°C
Processing (Melt) Temp	200 - 230	°C
Mold Temperature	10.0 - 50.0	°C
Back Pressure	0.400 - 0.800	MPa
Screw Speed	100 - 200	rpm
Clamp Tonnage	4.0 - 7.0	kN/cm ²
Injection instructions		
Injection Speed: 50 mm/sec or more		
Extrusion	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	185	°C
Cylinder Zone 2 Temp.	195	°C
Cylinder Zone 3 Temp.	200	°C
Die Temperature	210	°C
Extrusion instructions		
Gate Temperature: 205°C (401°F)Die Pressure: 4.8 to 17 MPa (696 to 2465 psi)		

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Recommended distributors for this material

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