

Viprene™ G45D-32U-NAT

Thermoplastic Vulcanizate
Alliance Polymers & Services

Message:

Viprene™ G45D-32U-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	0.940	g/cm ³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A	95		ISO 868
Shaw D	45		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	9.10	MPa	ISO 37
300% strain	11.0	MPa	ISO 37
Tensile Stress (Break)	14.7	MPa	ISO 37
Tensile Elongation (Break)	500	%	ISO 37
Tear Strength	86	kN/m	ISO 34-1
Compression Set (70°C, 22 hr)	55	%	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	190	°C
Middle Temperature	195	°C
Front Temperature	200	°C
Nozzle Temperature	200 - 230	°C
Processing (Melt) Temp	210 - 240	°C
Mold Temperature	10.0 - 50.0	°C
Back Pressure	0.300 - 0.700	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.	190	°C
Cylinder Zone 2 Temp.	200	°C
Cylinder Zone 3 Temp.	205	°C
Die Temperature	215	°C
Extrusion instructions		
Gate Temperature: 210°C (410°F)Die Pressure: 5 to 20 MPa (725 to 2900 psi)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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