

# Viprene™ G80A-32U-NAT

## Alliance Polymers & Services - Thermoplastic Vulcanizate

### General Information

#### Product Description

Viprene™ G80A-32U-NAT is a UV and Heat Stabilized TPV (thermoplastic vulcanizate elastomer). This material can be easily processed by extrusion or injection molding. It exhibits easy flowing characteristics.

#### General

Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Good Flow	• Heat Stabilized	• UV Resistant
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm <sup>3</sup>	ISO 2781
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	493	psi	ISO 37
Tensile Stress (300% Strain)	696	psi	ISO 37
Tensile Stress (Break)	1420	psi	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength	291	lbf/in	ISO 34-1
Compression Set (158°F, 22 hr)	45	%	ASTM D395B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	80		ISO 868
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°F	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in		HB	
0.06 in		HB	
0.12 in		HB	

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0	hr
Rear Temperature	356	°F
Middle Temperature	365	°F
Front Temperature	374	°F
Nozzle Temperature	383 to 437	°F
Processing (Melt) Temp	392 to 446	°F
Mold Temperature	50 to 122	°F
Back Pressure	72.5 to 123	psi
Screw Speed	100 to 200	rpm
Clamp Tonnage	2.9 to 5.1	tons/in <sup>2</sup>

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### Injection Notes

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Injection Speed: 50 mm/sec or more

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### Extrusion

	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	356	°F
Cylinder Zone 2 Temp.	374	°F
Cylinder Zone 3 Temp.	383	°F
Die Temperature	401	°F

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### Extrusion Notes

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Gate Temperature: 200°C (392°F)

Die Pressure: 4.8 to 17 MPa (696 to 2465 psi)