

Alliance Polymers Viprene™ G70A-32U-NAT Thermoplastic Vulcanizate Elastomer

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

Material Notes:

Viprene™ G70A-32U-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-G70A-32U-NAT-Thermoplastic-Vulcanizate-Elastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|---------------------------|----------|
| Density | 0.970 g/cc | 0.0350 lb/in ³ | ISO 2781 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|--|-------------|
| Hardness, Shore A | 40 | 40 | ISO 868 |
| Tensile Strength at Break | 7.17 MPa | 1040 psi | ISO 37 |
| Tensile Stress | 2.50 MPa | 363 psi | ISO 37 |
| | @Strain 100 % | @Strain 100 % | |
| | 3.60 MPa | 522 psi | ISO 37 |
| | @Strain 300 % | @Strain 300 % | |
| Elongation at Break | 550 % | 550 % | ISO 37 |
| Tear Strength | 38.6 kN/m | 220 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 | |
| | HB | HB | |

| Thermal Properties | Metric @ Thickness 3.00 mm | English @ Thickness 0.118 in | Comments |
|------------------------------|-------------------------------------|------------------------------------|-----------------------------|
| Processing Properties | Metric | English | Comments |
| Processing Temperature | 190 °C | 374 °F | Gate Temperature; Extrusion |
| | 190 - 230 °C | 374 - 446 °F | Injection |
| Rear Barrel Temperature | 180 °C | 356 °F | Injection |
| Middle Barrel Temperature | 185 °C | 365 °F | Injection |
| Front Barrel Temperature | 185 °C | 365 °F | Injection |
| Nozzle Temperature | 185 - 220 °C | 365 - 428 °F | Injection |
| Zone 1 | 180 °C | 356 °F | Extrusion |
| Zone 2 | 185 °C | 365 °F | Extrusion |
| Zone 3 | 185 °C | 365 °F | Extrusion |
| Die Temperature | 195 °C @Pressure 4.80 - 17.0 MPa | 383 °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 | 0.500 - 0.848 MPa | 72.5 - 123 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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