

DSM Arnite® TV4 270 PBT-35% Glass Reinforced (European and Asian Grade)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 40% Glass Fiber Filled

Material Notes:

Arnite resins are engineered to provide specific performance in applications where DSM technology can offer value. Arnite Molding resins: Standard Unfilled and Reinforced materials High modulus Flame retardant grades Easy molding FR grades for connectors Toughened unfilled materials for durability High modulus, tight specification for critical auto components Toughened reinforced resins Low outgassing grades for reflector surfaces Arnite extrusion resins: Specialized materials for specific uses PET for medical applications Loose buffer Optical fiber tubing PET for stock shapes Applications Automotive: Connectors, sensors and E&E parts, Exterior fittings, Gear housings and motors, Brake valve bodies Electrical & Electronic: Telecoms and IT connectors, Bobbins, Low voltage Power distribution, E-motor components, Lightings and Lamp fittings Consumer Durables: Small Appliances Other: Optical fiber tubing Information provided by DSM.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-TV4-270-PBT-35-Glass-Reinforced-European-and-Asian-Grade.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------|---------------------------|-------------------------------------|
| Density | 1.57 g/cc | 0.0567 lb/in ³ | ISO 1183 |
| Water Absorption | 0.25 % | 0.25 % | Sim. to ISO 62 |
| Moisture Absorption at Equilibrium | 0.15 % | 0.15 % | Humidity Absorption; Sim. to ISO 62 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|--------------|
| Tensile Strength at Break | 145 MPa | 21000 psi | ISO 527-1/-2 |
| Elongation at Break | 2.5 % | 2.5 % | ISO 527-1/-2 |
| Tensile Modulus | 11.5 GPa | 1670 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 6.50 J/cm ² | 30.9 ft-lb/in ² | ISO 179/1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 6.50 J/cm ² | 30.9 ft-lb/in ² | ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 1.30 J/cm ² | 6.19 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 1.30 J/cm ² | 6.19 ft-lb/in ² | ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|----------------------|----------------------|----------------|
| CTE, linear, Parallel to Flow | 40.0 μm/m-°C | 22.2 μin/in-°F | ISO 11359-1/-2 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |

| Thermal Properties | Metric 10.0 mm/m-°C | English 500 μm/in-°F | Comments |
|---|------------------------|-------------------------|--------------------------|
| CTE, linear, Transverse to Flow | @Temperature 20.0 °C | @Temperature 68.0 °F | ISO 11359-1/-2 |
| Melting Point | 225 °C | 437 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C | 428 °F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C | 410 °F | ISO 75-1/-2 |
| UL RTI, Electrical | 140 °C | 284 °F | UL746B |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 140 °C | 284 °F | UL746B |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| UL RTI, Mechanical with Impact | 130 °C | 266 °F | UL746B |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | 130 °C | 266 °F | UL746B |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| UL RTI, Mechanical without Impact | 140 °C | 284 °F | UL746B |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 140 °C | 284 °F | UL746B |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| Flammability, UL94 | HB | HB | IEC 60695-11-10 |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | IEC 60695-11-10 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|-------------|
| Volume Resistivity | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | >= 1.00e+15 ohm | >= 1.00e+15 ohm | IEC 60093 |
| Dielectric Strength | 30.0 kV/mm | 762 kV/in | IEC 60243-1 |
| Comparative Tracking Index | 475 V | 475 V | IEC 60112 |
| | 400 - 599 V | 400 - 599 V | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Release Agent | Yes | |
| With Fillers | Yes | |

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