

DSM Arnite® T06 200 SNF PBT (European Grade)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

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-T06-200-SNF-PBT-European-Grade.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--|--|---|
| Density | 1.30 g/cc | 0.0470 lb/in ³ | ISO 1183 |
| Water Absorption | 0.45 % | 0.45 % | Sim. to ISO 62 |
| Moisture Absorption at Equilibrium | 0.18 % | 0.18 % | Humidity Absorption; Sim. to ISO 62 |
| Melt Flow | 6.5 g/10 min @Load 1.60 kg, Temperature 250 °C | 6.5 g/10 min @Load 3.53 lb, Temperature 482 °F | Calculated from Volume Flow Rate of 5 cm ³ /10min.; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|--|--------------|
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | ISO 527-1/-2 |
| Elongation at Break | 35 % | 35 % | ISO 527-1/-2 |
| Elongation at Yield | 4.5 % | 4.5 % | ISO 527-1/-2 |
| Tensile Modulus | 2.60 GPa | 377 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | NB @Temperature 23.0 °C | NB @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 1.20 J/cm ² @Temperature 23.0 °C | 5.71 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|--------------------------|
| Melting Point | 225 °C | 437 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 140 °C | 284 °F | ISO 75-1/-2 |

| Thermal Properties | Metric | English | Comments |
|--|---------------------|----------------------|-----------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C | 140 °F | ISO 15-1/-2 |
| Flammability, UL94 | V-0 | V-0 | IEC 60695-11-10 |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | V-0 | V-0 | IEC 60695-11-10 |
| | @Thickness 0.750 mm | @Thickness 0.0295 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 Constant | 3.2 | 3.2 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 3.4 | 3.4 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dissipation Factor | 0.0030 | 0.0030 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 0.022 | 0.022 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Comparative Tracking Index | 600 V | 600 V | IEC 60112 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Flame Retardant | Yes | |
| Flame Retarding Agent | Yes | |
| Injection molding | Yes | |
| Release Agent | Yes | |
| Without Fillers | Yes | |

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