

DSM Arnite® T06 204 XL PBT

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

Material Notes:

Low Viscosity, Injection Molding, Low outgassing

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Arnite-T06-204-XL-PBT.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 | 0.180 % | 0.180 % | Sim. To ISO 62 |
| Viscosity | 8000 cP | 8000 cP | |
| | @Shear Rate 100000 1/s, Temperature 270 °C | @Shear Rate 100000 1/s, Temperature 518 °F | |
| | 8500 cP | 8500 cP | |
| | @Shear Rate 100000 1/s, Temperature 250 °C | @Shear Rate 100000 1/s, Temperature 482 °F | |
| | 9000 cP | 9000 cP | |
| | @Shear Rate 100000 1/s, Temperature 230 °C | @Shear Rate 100000 1/s, Temperature 446 °F | |
| | 100000 cP | 100000 cP | |
| | @Shear Rate 1.00 1/s, Temperature 270 °C | @Shear Rate 1.00 1/s, Temperature 518 °F | |
| | 175000 cP | 175000 cP | |
| | @Shear Rate 1.00 1/s, Temperature 250 °C | @Shear Rate 1.00 1/s, Temperature 482 °F | |
| | 300000 cP | 300000 cP | |
| | @Shear Rate 1.00 1/s, Temperature 230 °C | @Shear Rate 1.00 1/s, Temperature 446 °F | |
| Linear Mold Shrinkage, Flow | 0.020 cm/cm | 0.020 in/in | Sim. To ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.020 cm/cm | 0.020 in/in | Sim. To ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|--------------|
| Tensile Strength, Yield | 62.0 MPa | 8990 psi | ISO 527-1/-2 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------|----------------------------|--------------|
| Elongation at Yield | 8.5 % | 8.5 % | ISO 527-1/-2 |
| Tensile Modulus | 2.70 GPa | 392 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | NB | NB | ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.350 J/cm ² | 1.67 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 | 90.0 µm/m-°C | 50.0 µin/in-°F | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 90.0 µm/m-°C | 50.0 µin/in-°F | ISO 11359-1/-2 |
| Deflection Temperature at 0.46 MPa (66 psi) | 170 °C | 338 °F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C | 140 °F | ISO 75-1/-2 |
| Flammability, UL94 | HB | HB | IEC60695-11-10 |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | HB | HB | IEC60695-11-10 |
| | @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 |
| Dielectric Constant | 3.2 | 3.2 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 3.5 | 3.5 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 27.0 kV/mm | 686 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.0020 | 0.0020 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 0.020 | 0.020 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

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