

Technetics Group Amicon™ PEEK 30% Carbon (Unverified Data**)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

Information provided by Technetics Group (formerly Plastomer Technologies)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Technetics-Group-Amicon-PEEK-30-Carbon-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|-----------|-----------|-------------------------|
| Specific Gravity | 1.41 g/cc | 1.41 g/cc | ASTM D792 |
| Water Absorption | 0.060 % | 0.060 % | 24 hours; ASTM D570 (2) |
| Water Absorption at Saturation | 0.30 % | 0.30 % | ASTM D570 (2) |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|--------------------|
| Tensile Strength, Ultimate | 131 MPa | 19000 psi | ASTM D638 |
| Elongation at Break | 5.0 % | 5.0 % | ASTM D638 |
| Modulus of Elasticity | 7.58 GPa | 1100 ksi | ASTM D638 |
| Compressive Strength | 200 MPa | 29000 psi | ASTM D695 |
| Izod Impact, Notched | 0.550 J/cm | 1.03 ft-lb/in | ASTM D256 type "A" |
| Coefficient of Friction | 0.20 | 0.20 | ASTM PTM 55007 |
| K (wear) Factor | 302 x 10 ⁻⁸ mm ³ /N-M | 150 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr | QTM 55010 |
| Limiting Pressure Velocity | 0.876 MPa-m/sec | 25000 psi-ft/min | 4:1 safety factor |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------------------|---------------------|------------------|
| CTE, linear | 18.0 μm/m-°C | 10.0 μin/in-°F | ASTM E-831 (TMA) |
| | @Temperature 100 °C | @Temperature 212 °F | |
| Maximum Service Temperature, Air | 250 °C | 482 °F | |
| Flammability, UL94 | V-0 | V-0 | ASTM UL-94 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|------------|-----------|
| Dielectric Strength | 1.26 kV/mm | 32.0 kV/in | ASTM D149 |

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