

ScanTube PEEK Tubing

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

Material Notes:

Information provided by ScanTube, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ScanTube-PEEK-Tubing.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Water Absorption	<= 0.50 %	<= 0.50 %	ASTM D257

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	126	126	
Elongation at Break	50 %	50 %	ASTM D638, ASTM D1708
Tensile Modulus	3.59 GPa	520 ksi	ASTM D638
Flexural Modulus	3.65 GPa	530 ksi	ASTM D790
Compressive Strength	118 MPa	17100 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.173 W/m-K	1.20 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	334 °C	633 °F	
Maximum Service Temperature, Air	250 °C	482 °F	Continuous
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	286 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	>= 19.7 kV/mm	>= 500 kV/in	Short Term; 10 mil film; ASTM D149

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	

Descriptive Properties	Value ^{ent}	Comments
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