

Adamas Rixon U PEEK, Unreinforced

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

Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adamas-Rixon-U-PEEK-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.32 g/cc	1.30 - 1.32 g/cc	ASTM D792
Water Absorption	0.10 - 0.50 %	0.10 - 0.50 %	Immersion 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 68	62 - 68	ASTM D2240
Ball Indentation Hardness	90.0 - 145 MPa	13100 - 21000 psi	ISO 2032-N961
Tensile Strength at Break	80.0 - 150 MPa	11600 - 21800 psi	ASTM D638
Elongation at Break	20 - 40 %	20 - 40 %	ASTM D638
Tensile Modulus	2.20 - 3.50 GPa	319 - 508 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	343 °C	649 °F	DSC
Maximum Service Temperature, Air	300 °C	572 °F	DSC
Minimum Service Temperature, Air	-100 °C	-148 °F	DSC
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149

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