

Adamas Rixon 430 PEEK, 30% Carbon Fiber

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adamas-Rixon-430-PEEK-30-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 - 1.415 g/cc	1.40 - 1.415 g/cc	ASTM D792
Water Absorption	0.10 - 0.15 %	0.10 - 0.15 %	Immersion 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	100 - 105	100 - 105	ASTM D785
Hardness, Shore D	88 - 90	88 - 90	ASTM D2240
Ball Indentation Hardness	410 - 440 MPa	59500 - 63800 psi	ISO 2032-N961
Tensile Strength at Break	90.0 - 110 MPa	13100 - 16000 psi	ASTM D638
Elongation at Break	5.0 - 7.0 %	5.0 - 7.0 %	ASTM D638
Tensile Modulus	1.40 - 1.45 GPa	203 - 210 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	343 °C	649 °F	DSC
Maximum Service Temperature, Air	250 °C	482 °F	DSC
Minimum Service Temperature, Air	-80.0 °C	-112 °F	DSC

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	ASTM D257
Surface Resistance	1e+05	1e+05	ASTM D257

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