

Adamas Rixon 130 PEEK, 30% Carbon Filled

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-130-PEEK-30-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 - 1.44 g/cc	1.41 - 1.44 g/cc	ASTM D792
Water Absorption	0.15 - 0.18 %	0.15 - 0.18 %	Immersion 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	93 - 95	93 - 95	ASTM D785
Hardness, Shore D	85 - 90	85 - 90	ASTM D2240
Ball Indentation Hardness	330 - 350 MPa	47900 - 50800 psi	ISO 2032-N961
Tensile Strength at Break	110 - 140 MPa	16000 - 20300 psi	ASTM D638
Elongation at Break	2.0 - 4.0 %	2.0 - 4.0 %	ASTM D638
Tensile Modulus	1.00 - 1.10 GPa	145 - 160 ksi	ASTM D638
Flexural Strength	200 - 220 MPa	29000 - 31900 psi	3.5% flexural stress; ASTM D4894

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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