

Adamas Adalon® 463 PTFE, 15% Special Polyimide

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adamas-Adalon-463-PTFE-15-Special-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.01 - 2.03 g/cc	2.01 - 2.03 g/cc	ASTM D792
Deformation	2.0 - 4.5 %	2.0 - 4.5 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51 - 56	51 - 56	ASTM D2240
Ball Indentation Hardness	100 - 120 MPa	14500 - 17400 psi	ISO 2032-N132
Tensile Strength at Break	>= 10.0 MPa	>= 1450 psi	ASTM D4745-11
Elongation at Break	>= 130 %	>= 130 %	ASTM D4745-11
Coefficient of Friction, Static	0.10 - 0.30	0.10 - 0.30	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	ASTM C 177
Melting Point	335 °C	635 °F	DSC
Maximum Service Temperature, Air	250 °C	482 °F	DSC
Minimum Service Temperature, Air	-100 °C	-148 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257
Dielectric Strength	12.0 - 20.0 kV/mm	305 - 508 kV/in	ASTM D149

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