

Adamas Adalon® 401 PTFE, 10% 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-401-PTFE-10-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.95 - 2.05 g/cc	1.95 - 2.05 g/cc	ASTM D792
Deformation	2.8 - 3.0 %	2.8 - 3.0 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	ASTM D2240
Ball Indentation Hardness	58.0 - 64.0 MPa	8410 - 9280 psi	ISO 2032-N132
Tensile Strength at Break	>= 20.0 MPa	>= 2900 psi	ASTM D4745-97
Elongation at Break	>= 230 %	>= 230 %	ASTM D4745-97
Coefficient of Friction, Static	0.10 - 0.30	0.10 - 0.30	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft²-°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	230 °C	446 °F	DSC
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	2.1 @Frequency 60.0 - 2.00e+6 Hz	2.1 @Frequency 60.0 - 2.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 - 50.0 kV/mm	508 - 1270 kV/in	ASTM D149

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