

Adamas Adalon® 410 PTFE+ PEEK

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-410-PTFE-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 - 1.93 g/cc	1.90 - 1.93 g/cc	ASTM D792
Deformation	4.0 - 10 %	4.0 - 10 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 62	57 - 62	ASTM D2240
Tensile Strength at Break	>= 15.0 MPa	>= 2180 psi	ASTM D4745-97
Elongation at Break	>= 160 %	>= 160 %	ASTM D4745-97
Coefficient of Friction, Dynamic	0.18 - 0.22	0.18 - 0.22	ASTM D1894
Coefficient of Friction, Static	0.25 - 0.45	0.25 - 0.45	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft ² -°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	250 °C	482 °F	DSC
Minimum Service Temperature, Air	-85.0 °C	-121 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257
Dielectric Constant	1.9 @Frequency 60.0 - 2.00e+6 Hz	1.9 @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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