

Adamas Adalon® 403 PTFE, 15% 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-403-PTFE-15-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 - 1.98 g/cc	1.90 - 1.98 g/cc	ASTM D792
Deformation	7.0 - 13 %	7.0 - 13 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 64	57 - 64	ASTM D2240
Ball Indentation Hardness	48.0 - 52.0 MPa	6960 - 7540 psi	ISO 2032-N132
Tensile Strength at Break	>= 16.0 MPa	>= 2320 psi	ASTM D4745-97
Elongation at Break	>= 180 %	>= 180 %	ASTM D4745-97
Compressive Strength	6.50 - 8.50 MPa @Temperature 23.0 °C, Time 86400 sec	943 - 1230 psi @Temperature 73.4 °F, Time 24.0 hour	@ 1% deformation, 140 Kg/cm ² ; ASTM D621
Coefficient of Friction, Dynamic	0.10 - 0.15	0.10 - 0.15	ASTM D1894
Coefficient of Friction, Static	0.18 - 0.42	0.18 - 0.42	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.350 W/m-K	2.43 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	8.00e+18 ohm-cm	8.00e+18 ohm-cm	ASTM D257
Surface Resistance	6.00e+14 ohm	6.00e+14 ohm	ASTM D257

Electrical Properties Dielectric Constant	^{1.8} Metric	^{1.8} English	Comments ASTM D150
	@Frequency 60.0 - 2.00e+6 Hz	@Frequency 60.0 - 2.00e+6 Hz	
Dielectric Strength	20.0 - 50.0 kV/mm	508 - 1270 kV/in	ASTM D149

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