

Adamas Adalon® 451 PTFE, organic filler

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-451-PTFE-organic-filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.76 - 1.80 g/cc	1.76 - 1.80 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 65	62 - 65	ASTM D2240
Ball Indentation Hardness	128 - 132 MPa	18600 - 19100 psi	ISO 2032
Tensile Strength at Break	>= 12.0 MPa	>= 1740 psi	ASTM D4745-97
Elongation at Break	>= 115 %	>= 115 %	ASTM D4745-97
Coefficient of Friction, Dynamic	0.030 - 0.15	0.030 - 0.15	ASTM D1894
Coefficient of Friction, Static	0.12 - 0.22	0.12 - 0.22	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°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 - 70.0 kV/mm	508 - 1780 kV/in	ASTM D149

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