

Adamas Adalon® 415 PTFE, 10% 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-415-PTFE-10-Organic-Filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 - 1.92 g/cc	1.85 - 1.92 g/cc	ASTM D792
Deformation	2.7 - 3.0 %	2.7 - 3.0 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	ASTM D2240
Tensile Strength at Break	>= 12.0 MPa	>= 1740 psi	ASTM D4745-97
Elongation at Break	>= 150 %	>= 150 %	ASTM D4745-97
Coefficient of Friction, Static	0.10 - 0.30	0.10 - 0.30	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.400 W/m-K	2.78 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	2.0 @Frequency 60.0 - 2.00e+6 Hz	2.0 @Frequency 60.0 - 2.00e+6 Hz	ASTM D150
Dielectric Strength	25.0 - 40.0 kV/mm	635 - 1020 kV/in	ASTM D149

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