

Adamas Adalon® 510 PTFE, 5% MoS2

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-510-PTFE-5-MoS2.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.20 - 2.22 g/cc	2.20 - 2.22 g/cc	ASTM D792
Deformation	2.7 - 3.8 %	2.7 - 3.8 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	49 - 51	49 - 51	ASTM D2240
Ball Indentation Hardness	60.0 - 62.0 MPa	8700 - 8990 psi	ISO 2032
Tensile Strength at Break	32.0 - 34.0 MPa	4640 - 4930 psi	ASTM D4745-97
Elongation at Break	308 - 395 %	308 - 395 %	ASTM D4745-97
Coefficient of Friction, Static	0.10 - 0.15	0.10 - 0.15	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.820 W/m-K	5.69 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	-50.0 °C	-58.0 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	ASTM D257

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