

## Adamas Adalon® 509 PTFE, 3% 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-509-PTFE-3-MoS2.php](http://www.lookpolymers.com/polymer_Adamas-Adalon-509-PTFE-3-MoS2.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.18 - 2.20 g/cc	2.18 - 2.20 g/cc	ASTM D792
Deformation	2.7 - 3.8 %	2.7 - 3.8 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50 - 52	50 - 52	ASTM D2240
Ball Indentation Hardness	50.0 - 55.0 MPa	7250 - 7980 psi	ISO 2032
Tensile Strength at Break	32.0 - 34.0 MPa	4640 - 4930 psi	ASTM D4745-97
Elongation at Break	380 - 395 %	380 - 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 <sup>2</sup> -°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

## Contact Songhan Plastic Technology Co.,Ltd.

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