

## Adamas Adalon® 452 PTFE, Mica filler

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Mica Filled

**Material Notes:**

Information provided by Adamas, HPM

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Adamas-Adalon-452-PTFE-Mica-filler.php](http://www.lookpolymers.com/polymer_Adamas-Adalon-452-PTFE-Mica-filler.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.30 - 2.33 g/cc	2.30 - 2.33 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 65	62 - 65	ASTM D2240
Ball Indentation Hardness	120 - 135 MPa	17400 - 19600 psi	ISO 2032
Tensile Strength at Break	7.00 - 10.0 MPa	1020 - 1450 psi	ISO 527-1
Elongation at Break	6.5 - 12 %	6.5 - 12 %	ISO 527-1
Coefficient of Friction, Dynamic	0.030 - 0.15	0.030 - 0.15	ASTM D1894
Coefficient of Friction, Static	0.080 - 0.18	0.080 - 0.18	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.760 W/m-K	5.27 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	260 °C	500 °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
Dielectric Constant	2.8 @Frequency 60.0 - 2.00e+6 Hz	2.8 @Frequency 60.0 - 2.00e+6 Hz	ASTM D150

Dielectric Strength Electrical Properties	10.0 - 11.0 kV/mm Metric	254 - 279 kV/in English	ASTM D149 Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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