

Adamas Adalon® 453 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-453-PTFE-Mica-filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.28 - 2.30 g/cc	2.28 - 2.30 g/cc	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 68	62 - 68	ASTM D2240
Ball Indentation Hardness	100 - 115 MPa	14500 - 16700 psi	ISO 2032
Tensile Strength at Break	9.00 - 11.0 MPa	1310 - 1600 psi	ISO 527-1
Elongation at Break	40 - 60 %	40 - 60 %	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
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	260 °C	500 °F	DSC
Minimum Service Temperature, Air	-100 °C	-148 °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	2.58 @Frequency 60.0 - 2.00e+6 Hz	2.58 @Frequency 60.0 - 2.00e+6 Hz	ASTM D150
Dielectric Strength	7.00 - 8.00 kV/mm	178 - 203 kV/in	ASTM D149

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