

Adamas Adalon® 477 PTFE, 20% Aramid Fiber

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-477-PTFE-20-Aramid-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.93 - 1.96 g/cc	1.93 - 1.96 g/cc	ASTM D792
Deformation	1.7 - 3.0 %	1.7 - 3.0 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 59	57 - 59	ASTM D2240
Ball Indentation Hardness	54.0 - 56.0 MPa	7830 - 8120 psi	ISO 2032
Tensile Strength at Break	16.0 - 18.0 MPa	2320 - 2610 psi	ASTM D4745-97
Elongation at Break	180 - 195 %	180 - 195 %	ASTM D4745-97
Coefficient of Friction, Static	0.30 - 0.40	0.30 - 0.40	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°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

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