

Adamas Adalon® 413 PTFE, 20% PPS

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-413-PTFE-20-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.11 - 2.12 g/cc	2.11 - 2.12 g/cc	ASTM D792
Deformation	8.5 - 11 %	8.5 - 11 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56 - 59	56 - 59	ASTM D2240
Ball Indentation Hardness	47.0 - 50.0 MPa	6820 - 7250 psi	ISO 2032-N132
Tensile Strength at Break	>= 25.0 MPa	>= 3630 psi	ASTM D4745-97
Elongation at Break	>= 170 %	>= 170 %	ASTM D4745-97
Tensile Modulus	>= 0.0300 GPa	>= 4.35 ksi	ASTM D4745-97

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.380 W/m-K	2.64 BTU-in/hr-ft²-°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	220 °C	428 °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+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Constant	1.5 @Frequency 60.0 - 2.00e+6 Hz	1.5 @Frequency 60.0 - 2.00e+6 Hz	ASTM D150
Dielectric Strength	25.0 - 30.0 kV/mm	635 - 762 kV/in	ASTM D149

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