

Adamas Adalon® 911 PTFE

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-911-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 - 2.20 g/cc	2.12 - 2.20 g/cc	ASTM D792
Deformation	10 - 12.9 %	10 - 12.9 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54 - 57	54 - 57	ASTM D2240
Ball Indentation Hardness	>= 22.0 MPa	>= 3190 psi	ISO 2032-N132
Tensile Strength at Break	>= 23.0 MPa	>= 3340 psi	ASTM D4745-11
Elongation at Break	>= 260 %	>= 260 %	ASTM D4745-11
Tensile Modulus	>= 0.600 GPa	>= 87.0 ksi	DIN 53457
Coefficient of Friction, Dynamic	0.060 - 0.080	0.060 - 0.080	ASTM D1894
Coefficient of Friction, Static	0.080 - 0.11	0.080 - 0.11	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.240 W/m-K	1.67 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	-200 °C	-328 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	2.1 @Frequency 60.0 -	2.1 @Frequency 60.0 -	ASTM D150

Electrical Properties	2.00e+6 Hz Metric	2.00e+6 Hz English	Comments
Dielectric Strength	20.0 - 70.0 kV/mm	508 - 1780 kV/in	ASTM D149

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