

Adamas Adalon® 406 PTFE, 15% PEEK

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-406-PTFE-15-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.93 - 1.96 g/cc	1.93 - 1.96 g/cc	ASTM D792
Deformation	5.5 - 7.5 %	5.5 - 7.5 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	5.0 - 12 %	5.0 - 12 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 62	57 - 62	ASTM D2240
Ball Indentation Hardness	50.0 - 55.0 MPa	7250 - 7980 psi	ISO 2032-N132
Tensile Strength at Break	>= 13.0 MPa	>= 1890 psi	ASTM D4745-97
Elongation at Break	>= 130 %	>= 130 %	ASTM D4745-97
Compressive Strength	5.50 - 7.50 MPa @Temperature 23.0 °C, Time 86400 sec	798 - 1090 psi @Temperature 73.4 °F, Time 24.0 hour	@ 1% deformation, 140 Kg/cm ² ; ASTM D621
Coefficient of Friction, Dynamic	0.15 - 0.19	0.15 - 0.19	ASTM D1894
Coefficient of Friction, Static	0.20 - 0.45	0.20 - 0.45	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² -°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	250 °C	482 °F	DSC
Minimum Service Temperature, Air	-85.0 °C	-121 °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

Electrical Properties	Metric	English	Comments
Dielectric Constant	1.9 @Frequency 60.0 - 2.00e+6 Hz	1.9 @Frequency 60.0 - 2.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 - 60.0 kV/mm	508 - 1520 kV/in	ASTM D149

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