

Adamas Adalon® 998 PTFE, Turquoise

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-998-PTFE-Turquoise.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.14 - 2.18 g/cc	2.14 - 2.18 g/cc	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570
Deformation	5.0 - 6.4 %	5.0 - 6.4 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	10 - 12.9 %	10 - 12.9 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48 - 52	48 - 52	ASTM D2240
Ball Indentation Hardness	58.0 - 62.0 MPa	8410 - 8990 psi	ISO 2032-N132
Tensile Strength at Break	>= 30.0 MPa	>= 4350 psi	ASTM D4745-11
Elongation at Break	>= 370 %	>= 370 %	ASTM D4745-11
Coefficient of Friction, Dynamic	0.060 - 0.080	0.060 - 0.080	ASTM D1894
Coefficient of Friction, Static	0.070 - 0.10	0.070 - 0.10	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft²-°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	260 °C	500 °F	DSC
Minimum Service Temperature, Air	-80.0 °C	-112 °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

Electrical Properties Dielectric Constant	^{2.1} Metric	^{2.1} English	Comments ASTM D150
	@Frequency 60.0 - 2.00e+6 Hz	@Frequency 60.0 - 2.00e+6 Hz	
Dielectric Strength	20.0 - 70.0 kV/mm	508 - 1780 kV/in	ASTM D149

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