

Adamas Adalon® 301 PTFE, 10% Graphite

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-301-PTFE-10-Graphite.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.14 - 2.16 g/cc	2.14 - 2.16 g/cc	ASTM D792
Deformation	5.0 - 7.5 %	5.0 - 7.5 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	9.0 - 10.5 %	9.0 - 10.5 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56 - 62	56 - 62	ASTM D2240
Tensile Strength at Break	>= 19.0 MPa	>= 2760 psi	ASTM D4894
Elongation at Break	>= 210 %	>= 210 %	ASTM D4894
Coefficient of Friction, Dynamic	0.080 - 0.10	0.080 - 0.10	ASTM D1894
Coefficient of Friction, Static	0.060 - 0.080	0.060 - 0.080	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.390 W/m-K	2.71 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	-180 °C	-292 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	ASTM D257
Surface Resistance	1.00e+9 ohm	1.00e+9 ohm	ASTM D257

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