

Adamas Adalon® 118 PTFE, 23/2% Carbon/Graphite Filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Carbon Fiber Filled

Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adamas-Adalon-118-PTFE-232-CarbonGraphite-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.06 - 2.10 g/cc	2.06 - 2.10 g/cc	ASTM D792
Deformation	2.0 - 3.9 %	2.0 - 3.9 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	5.0 - 6.9 %	5.0 - 6.9 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58 - 62	58 - 62	ASTM D2240
Tensile Strength at Break	>= 14.0 MPa	>= 2030 psi	ASTM D4745-11
Elongation at Break	>= 90 %	>= 90 %	ASTM D4745-11
Compressive Strength	>= 10.0 MPa @Temperature 23.0 °C, Time 86400 sec	>= 1450 psi @Temperature 73.4 °F, Time 24.0 hour	@ 1% deformation, 140 Kg/cm ² ; ASTM D621
Coefficient of Friction, Dynamic	0.10 - 0.12	0.10 - 0.12	ASTM D1894
Coefficient of Friction, Static	0.14 - 0.16	0.14 - 0.16	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.280 W/m-K	1.94 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	-80.0 °C	-112 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257
Surface Resistance	1000 ohm	1000 ohm	ASTM D257

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