

Adamas Adalon® 139 PTFE, 35% Soft Carbon 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-139-PTFE-35-Soft-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.04 - 2.08 g/cc	2.04 - 2.08 g/cc	ASTM D792
Deformation	2.0 - 3.1 %	2.0 - 3.1 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	4.5 - 5.4 %	4.5 - 5.4 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 - 64	62 - 64	ASTM D2240
Tensile Strength at Break	>= 15.0 MPa	>= 2180 psi	ASTM D4894
Elongation at Break	>= 40 %	>= 40 %	ASTM D4894
Coefficient of Friction, Dynamic	0.13 - 0.15	0.13 - 0.15	ASTM D1894
Coefficient of Friction, Static	0.14 - 0.16	0.14 - 0.16	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.290 W/m-K	2.01 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	10000 ohm-cm	10000 ohm-cm	ASTM D257
Surface Resistance	1000 ohm	1000 ohm	ASTM D257

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