

Adamas Adalon® 703 PTFE, 15% Carbon Fiber

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-703-PTFE-15-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.93 - 1.95 g/cc	1.93 - 1.95 g/cc	ASTM D792
Deformation	2.0 - 3.5 %	2.0 - 3.5 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	3.0 - 5.5 %	3.0 - 5.5 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60 - 64	60 - 64	ASTM D2240
Ball Indentation Hardness	115 - 145 MPa	16700 - 21000 psi	ISO 2032-N132
Tensile Strength at Break	>= 18.0 MPa	>= 2610 psi	ASTM D4745-11
Elongation at Break	>= 20 %	>= 20 %	ASTM D4745-11

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.340 W/m-K	2.36 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	-140 °C	-220 °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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