

Adamas Adalon® 254 PTFE, 28% Glass Fiber

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Glass Filled, Molded

Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adamas-Adalon-254-PTFE-28-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.21 - 2.23 g/cc	2.21 - 2.23 g/cc	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570
Deformation	4.0 - 5.5 %	4.0 - 5.5 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	9.0 - 11.5 %	9.0 - 11.5 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 60	57 - 60	ASTM D2240
Ball Indentation Hardness	45.0 - 50.0 MPa	6530 - 7250 psi	ISO 2032-N132
Tensile Strength at Break	>= 12.0 MPa	>= 1740 psi	ASTM D4894
Elongation at Break	>= 140 %	>= 140 %	ASTM D4894

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	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

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