

Adamas Adalon® 814 PTFE, 55% Bronze, 5% MoS2

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Bronze Filled

Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adamas-Adalon-814-PTFE-55-Bronze-5-MoS2.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.81 - 3.83 g/cc	3.81 - 3.83 g/cc	ASTM D792
Deformation	2.0 - 3.0 %	2.0 - 3.0 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	4.0 - 6.0 %	4.0 - 6.0 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60 - 63	60 - 63	ASTM D2240
Ball Indentation Hardness	57.0 - 60.0 MPa	8270 - 8700 psi	ISO 2032-N132
Tensile Strength at Break	>= 12.0 MPa	>= 1740 psi	ASTM D4894
Elongation at Break	>= 80 %	>= 80 %	ASTM D4894
Coefficient of Friction, Dynamic	0.16 - 0.18	0.16 - 0.18	ASTM D1894
Coefficient of Friction, Static	0.18 - 0.20	0.18 - 0.20	ASTM D1894

Thermal Properties	Metric	English	Comments
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	260 °C	500 °F	DSC
Minimum Service Temperature, Air	-100 °C	-148 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	ASTM D257

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