

Saint-Gobain Fluoroloy® A12 High Performance Seal Material

Category : Polymer , Thermoplastic

Material Notes:

Excellent wear and heat resistance; Non-abrasive; Recommended for moderate to high speed service running against soft or hard metals;
Performs well against lubricated and non-lubricated surfaces Information provided by Saint-Gobain Performance Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Fluoroloy-A12-High-Performance-Seal-Material.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	ASTM D792
Deformation	3.0 % @Time 86400 sec	3.0 % @Time 24.0 hour	13.8 MPa (2000 psi) load; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength	13.8 MPa	2000 psi	ASTM D1708
Elongation at Break	180 %	180 %	ASTM D1708
Compressive Yield Strength	6.89 MPa @Strain 1.00 %	999 psi @Strain 1.00 %	ASTM D695
Coefficient of Friction	0.12	0.12	ASTM D3702

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.247 W/m-K	1.71 BTU-in/hr-ft ² - °F	ASTM D435
Maximum Service Temperature, Air	288 °C	550 °F	
Minimum Service Temperature, Air	-268 °C	-450 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.20e+18 ohm-cm	8.20e+18 ohm-cm	ASTM D4496
Surface Resistance	6.30e+18 ohm	6.30e+18 ohm	ASTM D4496
Dielectric Constant	2.4 @Frequency 1.00e+6 Hz	2.4 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	>= 7.87 kV/mm	>= 200 kV/in	ASTM D149

Electrical Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Light Brown	

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