

Solvay Specialty Polymers Algoflon® F3140 X PTFE (Polytetrafluoroethylene) (discontinued **)

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

Material Notes:

Data provided by the manufacturer.Type II Classification. Suspension polymer powder grade recommended for compression molding and extrusion. PTFE possesses high inertness, excellent dielectric properties, almost no moisture absorption, low friction coefficient, and is nonflammable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-F3140-X-PTFE-Polytetrafluoroethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.18 g/cc	0.0788 lb/in ³	ASTM D792
Apparent Bulk Density	0.360 g/cc	0.0130 lb/in ³	ASTM D4894
Water Absorption	0.00 %	0.00 %	ASTM D570
Linear Mold Shrinkage	0.039 cm/cm	0.039 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23°C

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Coefficient of Friction, Dynamic	0.060	0.060	ASTM D1894
Coefficient of Friction, Static	0.080	0.080	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	ASTM C177
Maximum Service Temperature, Air	260 °C	500 °F	Continuous Service
Flammability, UL94	V-0	V-0	VE-0
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Dielectric Constant	2.1	2.1	ASTM D150
	@Frequency 60.0 -	@Frequency 60.0 -	

Electrical Properties	2.00e+9 Hz Metric	2.00e+9 Hz English	Comments
Dielectric Strength	100 kV/mm	2540 kV/in	ASTM D149
Dissipation Factor	>= 0.00030 @Frequency 60.0 - 2.00e+9 Hz	>= 0.00030 @Frequency 60.0 - 2.00e+9 Hz	ASTM D150

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