

Solvay Specialty Polymers Algoflon® E2 PTFE (Polytetrafluoroethylene) (discontinued **)

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

Material Notes:

Data provided by the manufacturer. Pre Sintered. Type V 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-E2-PTFE-Polytetrafluoroethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.15 g/cc	0.0777 lb/in ³	ASTM D792
Apparent Bulk Density	0.640 g/cc	0.0231 lb/in ³	ASTM D4894
Water Absorption	0.00 %	0.00 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	23.0 MPa	3340 psi	ASTM D638
Elongation at Break	340 %	340 %	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 - 2.00e+9 Hz	@Frequency 60.0 - 2.00e+9 Hz	
	>= 0.00030	>= 0.00030	

Dielectric Factor Electrical Properties	@Frequency 60.0 - Metric 2.00e+9 Hz	@Frequency 60.0 - English 2.00e+9 Hz	ASTM D150 Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China