

Solvay Specialty Polymers Algoflon® S 121 PTFE (Polytetrafluoroethylene) (discontinued **)

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

Material Notes:

Data provided by the manufacturer.Type IV.G.1 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-S-121-PTFE-Polytetrafluoroethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.17 g/cc	0.0784 lb/in ³	ASTM D792
Apparent Bulk Density	0.800 g/cc	0.0289 lb/in ³	ASTM D4894
Water Absorption	0.00 %	0.00 %	ASTM D570
Linear Mold Shrinkage	0.029 cm/cm	0.029 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23°C

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	37.0 MPa	5370 psi	ASTM D638
Elongation at Break	350 %	350 %	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 @Frequency 60.0 - 2.00e+9 Hz	2.1 @Frequency 60.0 - 2.00e+9 Hz	ASTM D150

Electrical Properties	Metric ^{mm}	English ⁱⁿ	Comments
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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