

Solvay Specialty Polymers Algoflon® F 5 Polytetrafluoroethylene (PTFE)

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

Material Notes:

Algoflon® F 5 is a fine cut homopolymer PTFE powder that is white, granular and non-free flowing. It is designed for filled grades and in particular is recommended for compounds with glass fiber since it allows good degassing during the sintering process. Features: Good Chemical Resistance Uses: Additive; Blending Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-F-5-Polytetrafluoroethylene-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.17 g/cc	0.0784 lb/in ³	ASTM D792
Apparent Bulk Density	0.380 g/cc	0.0137 lb/in ³	ASTM D4894
Water Absorption	0.00 %	0.00 %	ASTM D570
Particle Size	15 Åµm	15 Åµm	Internal Method
Linear Mold Shrinkage	0.030 cm/cm	0.030 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23Å°C

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	40.0 MPa	5800 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-ftÅ²-Å°F	ASTM C177
Maximum Service Temperature, Air	260 Å°C	500 Å°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	70.0 kV/mm	1780 kV/in	Estimated from similar grades. ASTM D149
Dissipation Factor	>= 0.00030 @Frequency 60.0 - 2.00e+9 Hz	>= 0.00030 @Frequency 60.0 - 2.00e+9 Hz	ASTM D150

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Agency Ratings	FDA 21 CFR 177.1550	
Availability	Asia Pacific; Europe	
Color	White	
Form	Powder	

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