

## Solvay Specialty Polymers Algoflon<sup>®</sup> F 7 Polytetrafluoroethylene (PTFE)

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

### Material Notes:

Algoflon<sup>®</sup> F 7 is a fine cut homopolymer PTFE powder that is white, granular and non-free flowing. It is designed for normal compression molding and in particular molding of large billets for low thickness skived tapes down to 1 mil (25  $\mu\text{m}$ ). 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-7-Polytetrafluoroethylene-PTFE.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-F-7-Polytetrafluoroethylene-PTFE.php)

Physical Properties	Metric	English	Comments
Density	2.17 g/cc	0.0784 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.410 g/cc	0.0148 lb/in <sup>3</sup>	ASTM D4894
Water Absorption	0.00 %	0.00 %	ASTM D570
Particle Size	15 $\mu\text{m}$	15 $\mu\text{m}$	Internal Method
Linear Mold Shrinkage	0.030 cm/cm	0.030 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23 $^{\circ}\text{C}$

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	400 %	400 %	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 <sup>2</sup> - $^{\circ}\text{F}$	ASTM C177
Maximum Service Temperature, Air	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	Continuous Service
Flammability, UL94	V-0	V-0	VE-0
Oxygen Index	$\geq 95$ %	$\geq 95$ %	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	75.0 kV/mm	1910 kV/in	ASTM D149
	85.0 kV/mm	2160 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

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	
Processing Technique	Compression Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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