

Solvay Specialty Polymers Algorlon® F 5/S Polytetrafluoroethylene (PTFE)

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

Material Notes:

Algorlon® F 5/S is a fine cut homopolymer PTFE powder that is white, granular and non-free flowing powder. It is designed for compounds production and in particular it is recommended for use with high filler content. This material exhibits high bulk density, tensile strength and elongation at break. Black compounds based on Algorlon® F5/S show optimum isotropic behavior and therefore excellent longitudinal mechanical properties. 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-Algorlon-F-5S-Polytetrafluoroethylene-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.16 g/cc	0.0780 lb/in ³	ASTM D792
Apparent Bulk Density	0.410 g/cc	0.0148 lb/in ³	ASTM D4894
Water Absorption	0.00 %	0.00 %	ASTM D570
Particle Size	15 µm	15 µm	Internal Method
Linear Mold Shrinkage	0.031 cm/cm	0.031 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23°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 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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 60.0 - 2.00e+9 Hz	@Frequency 60.0 - 2.00e+9 Hz	ASTM D150
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	

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