

Solvay Specialty Polymers Algoflon® L100 Polytetrafluoroethylene (PTFE) (Unverified Data**)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , PTFE Powder

Material Notes:

Algoflon® L100 is a white PTFE micropowder comprising loose agglomerates of sub-micron sized particles. Algoflon® L100 is specially polymerized to obtain a powder with exceptionally high specific surface area (SSA). Additionally, using this technique low molecular weight is achieved without irradiation treatment. Algoflon® L100 is primarily recommended for use as a thickener in high quality oils and greases. Due to its exceptionally high specific surface area it can be used in reduced concentrations to lower coefficient of friction and enhance tribological performance of lubricants. Algoflon® L100 exhibits excellent chemical and heat resistance, low surface energy and low coefficient of friction. Main features of Algoflon® L100 include: - Exceptionally high SSA - Low molecular weight - Good blendability - Easily deagglomerated under shear - Compliant with FDA 21 CFR 177.1550

Additional Information: Processing - Due to its low molecular weight, Algoflon® L100 cannot be used as a molding or extrusion resin. As an additive in host materials it is used at concentrations typically from 5 to 30% weight. Incorporation and mixing with matrix materials must be carefully controlled. It is recommended that mixing should be carried out below 30°C to produce good homogeneous mixtures. - Algoflon® L micropowders can be dispersed using a variety of mixing equipment. Propeller mixers can be used for wet mixtures. Glass bead mills are recommended for high viscous mixtures and roll mills for typically very high viscosity applications such as oils and greases. With dry blend applications, high speed stirrers and tumble blenders can be used. Storage and Handling - Algoflon® L micropowders can be stored without shelf life issues when kept in a clean and dry area at temperatures below 30°C. Safety and Toxicology - Before using PTFE Algoflon® L micropowders consult the product Material Safety Data Sheet and follow all label directions and handling precautions. - As with all PTFE materials, handling and processing should only be carried out in well ventilated areas. Vapor extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapor or fumes. - See Material Safety Data Sheet for detailed advice on waste disposal methods. Packaging - Algoflon® L100 is packaged in 15 kg non returnable drums. Each drum has one bag liner made of polyethylene resin. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-L100-Polytetrafluoroethylene-PTFE-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Apparent Bulk Density	0.350 g/cc	0.0126 lb/in ³	ASTM D4895
Particle Size	0.10 µm	0.10 µm	Primary; Internal Method
	<= 20 µm	<= 20 µm	Average; Internal Method
Specific Surface Area	>= 20 m ² /g	>= 20 m ² /g	Internal Method

Descriptive Properties	Value	Comments
Agency Ratings	FDA 21 CFR 177.1550	
Appearance	White	

Availability Descriptive Properties	Asia Pacific Value	Comments
	Europe	
	North America	
Features	Good Chemical Resistance	
	High Heat Resistance	
	Low Friction	
	Low Molecular Weight	
Forms	Powder	
Generic	PTFE	
Uses	Additive	
	Blending	

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