

Solvay Specialty Polymers Algoflon® L101-1 Polytetrafluoroethylene (PTFE) (Unverified Data**)

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

Material Notes:

Algoflon® L101-1 is a white PTFE micropowder comprising loose agglomerates of sub-micron sized particles. It exhibits excellent chemical and heat resistance, low surface energy and low coefficient of friction. Algoflon® L101-1 is specially designed for use as an additive in high quality oils and greases. Having higher specific surface area than Algoflon® L203, it can be used in lower concentrations to reduce coefficient of friction and enhance tribological performance of lubricants. Algoflon® L101-1 can be used in inks for improving abrasion, scratch and rub resistance. Additionally it can impart non-stick properties and improve wear-resistance in thermoplastics and coatings.

Main features of Algoflon® L101-1 include: - Very high specific surface area - Low molecular weight - Good blendability - Easily deagglomerated under shear - Compliant with FDA 21 CFR 177.1550
 Additional Information: Processing - As an additive Algoflon® L101-1 is suitable for use in many applications. Due to its low molecular weight it is not suitable for use as a molding or extrusion resin. It can be used at concentrations typically from 5 to 30% by weight. Incorporation and mixing with host 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. For dry blend applications, high speed stirrers and tumble blenders can be used. - In the case of elastomers, Algoflon® L101-1 can be first blended with other fillers and then introduced into the elastomer before the final processing under normal conditions. 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® L101-1 is packaged in 20 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-L101-1-Polytetrafluoroethylene-PTFE-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Apparent Bulk Density	0.300 g/cc	0.0108 lb/in ³	ASTM D4895
Particle Size	0.14 µm	0.14 µm	Primary; Internal Method
	3.5 µm	3.5 µm	Average; Internal Method
Specific Surface Area	>= 14 m ² /g	>= 14 m ² /g	Internal Method

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	328 - 332 °C Metric	622 - 630 °F English	Peak: ASTM D3418 Comments
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Descriptive Properties	Value	Comments
Agency Ratings	FDA 21 CFR 177.1550	
Appearance	White	
Availability	Asia Pacific	
	Europe	
	North America	
Features	Good Chemical Resistance	
	High Heat Resistance	
	Low Friction	
	Low Molecular Weight	
Forms	Powder	
Generic	PTFE	
Uses	Additive	
	Blending	

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