

Solvay Specialty Polymers Algoflon® L203 Polytetrafluoroethylene (PTFE)
(Unverified Data)**

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

Material Notes:

Algoflon® L203 is a white PTFE micropowder comprising loose agglomerates of sub-micron sized particles. It is recommended for use as an additive in high quality oils and greases to reduce coefficient of friction and enhance tribological performance. Algoflon® L203 can also be used alone as a dry lubricant. Additionally it can impart non-stick properties and improve wear-resistance in coatings. Algoflon® L203 exhibits excellent chemical and heat resistance, low surface energy and low coefficient of friction. Main features of Algoflon® L203 include:

- High specific surface area
- Low molecular weight
- Good blendability
- Deagglomerated under shear

Additional Information: Processing -

As an additive Algoflon® L203 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. Depending on the application, 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 e.g. solvents and oils. 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.

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® L203 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-L203-Polytetrafluoroethylene-PTFE-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Apparent Bulk Density	0.310 g/cc	0.0112 lb/in³	ASTM D4895
Particle Size	0.22 µm	0.22 µm	Primary; Internal Method
	<= 8.0 µm	<= 8.0 µm	Average; Internal Method
Specific Surface Area	>= 7.5 m²/g	>= 7.5 m²/g	Internal Method

Thermal Properties	Metric	English	Comments
Melting Point	328 - 332 °C	622 - 630 °F	Peak; ASTM D3418

Descriptive Properties	Value	Comments
Appearance	White	

Descriptive Properties	Value	Comments
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	

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