

Algoflon® L206

Polytetrafluoroethylene

Solvay Specialty Polymers

Message:

Algoflon® L206 a white PTFE micronized powder produced from dispersion polymerization comprising loose agglomerates of sub-micron sized primary particles.

Algoflon® L206 can be de-agglomerated to sub-micron particle size by the application of shear providing a better dispersion and distribution of the PTFE particles in the application.

Designed for use in critical engineering and high end performance elastomers to improve abrasion and tear resistance, Algoflon® L206 is used as well in high performance coatings to improved non-stick properties, mar and abrasion resistance.

Main features are:

Improved lubricity

Increased (hot) tear strength

Better flex life

Reduced friction and wear

General Information			
Uses	Additive		
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific surface area	> 7.5	m ² /g	Internal method
Average particle size-Surface	5.0	µm	Internal method
Volume density	325	g/l	ASTM D4895
Oily grinding-NPIRI	1.50		NPIRI
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	325 - 335	°C	ASTM D3418
Additional Information	Nominal Value		Test Method

Processing

Besides its main function as a wear additive, Algoflon® L206 can be used at low concentration to improve mold release properties.

Internal or open mixers (e.g. Banbury or two-roll mixers) are normally used to allow a good distribution of Algoflon® L206 in the elastomeric compound. Typically 5 to 15 % can be added to elastomeric compounds to achieve the desired properties. Additional fillers are normally included with Algoflon® L micronized PTFE during the blending process. The resulting elastomeric composition can then be processed under normal conditions.

Storage and Handling

The usual precautions for safe storage and handling of Algoflon® L206 should be taken according to material safety documentation and experience.

There will be no chemical deterioration of the Algoflon® L206 during proper storage.

Shelf life of Algoflon® L206 micronized powders will vary depending upon whether the recommended storage conditions are maintained and whether the material remains free from foreign contamination during storage time (not exposed to dirt, dust, water or other chemicals). The material should remain sealed in the original containers and storage conditions should provide for protection from temperature extremes as well as rain, snow or other wet environments (or such conditions which may damage the storage containers in which the product is stored).

Safety and Toxicology

Before using PTFE Algoflon® L micronized powders 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® L206 is packaged in 20 kg non returnable drums. Each drum has one bag liner made of polyethylene resin.

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