

Algoflon® L203 R polytetrafluoroethylene

Algoflon® L203 R is a white PTFE micronized powder produced from dispersion polymerization comprising loose agglomerates of sub-micron sized primary particles.

Algoflon® L203 R 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.

Algoflon® L203 R is designed for use as additive in critical engineering and high-end performance

host materials such as thermoplastics, elastomers, coatings, inks and lubricants.

Main features of Algoflon® L203 R include:

- High specific surface area
- Low molecular weight
- Good blendability
- Deagglomerated under shear
- Improved lubricity
- Reduced friction and wear

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• Additive
Appearance	• White
Forms	• Powder

Physical	Typical Value	Unit	Test method
Average Particle Size	5.0	µm	Internal Method
Bulk Density	325	g/l	ASTM D3418
Specific Surface Area	> 7.5	m ² /g	Internal Method

Thermal	Typical Value	Unit	Test method
Peak Melting Temperature	325 to 335	°C	ASTM D3418



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Additional Information

Processing

Processing conditions of Algoflon® L203 R depend on those of the host material (i.e., thermoplastics, elastomers, coatings, inks and lubricants).

Storage and Handling

- The usual precautions for safe storage and handling of Algoflon® L203 R should be taken according to material safety documentation and experience. There will be no chemical deterioration of the Algoflon® L203 R during proper storage.
- Shelf life of Algoflon® L203 R 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® L203 R is packaged in 20 kg non returnable drums. Each drum has one bag liner made of polyethylene resin.
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Notes

Typical properties: these are not to be construed as specifications.

