

# Algoflon® F 5

## polytetrafluoroethylene

Algoflon® F 5 is a fine cut homopolymer PTFE powder that is white, granular and non-free flowing. It is designed for filled grades and in particular is recommended for compounds with glass fiber since it allows good degassing during the sintering process.

- Fine particle size
- Narrow particle size distribution
- Good blendability
- Low porosity

Main features of Algoflon® F 5 are:

### General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe
Features	• Chemical Resistant
Uses	• Additive • Blending
Agency Ratings	• FDA 21 CFR 177.1550
Appearance	• White
Forms	• Powder

### Physical

	Typical Value	Unit	Test method
Specific Gravity	2.17		ASTM D792
Average Particle Size	15	µm	Internal Method
Bulk Density	380	g/l	ASTM D4894
Shrinkage - Radial	3.0	%	ASTM D4894

### Mechanical

	Typical Value	Unit	Test method
Tensile Strength	40.0	MPa	ASTM D4894
Elongation at Break	350	%	

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### Additional Information

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#### Processing

- Algoflon® F 5 is used for preparing filled products based on PTFE resins. Prior to use, Algoflon® F 5 powder needs to be conditioned above 19°C/66°F.
- In order to obtain fully homogeneous compounds, it is necessary to mix Algoflon® F 5 and filler with high shear systems. Temperature must also be controlled (it should not rise above 40°C/104°F) during the mixing process to avoid agglomeration of PTFE and generation of white spots.
- Algoflon® F 5 based compounds are processed using normal compression molding as similar to virgin fine cut PTFE.

#### Storage and Handling

- Algoflon® PTFE fine cut powders must be stored and handled carefully to achieve defect free compounds and items. Temperatures that are too high should be avoided to prevent powder lumping and poor flow.
- Storage and handling facilities should be clean since even very small foreign particles can cause defects in finished products. Keep resin drums closed and clean. Good housekeeping and careful handling are essential.

#### Safety and Toxicology

- Before using Algoflon® PTFE fine cut 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® F 5 is packaged in 25 kg nonreturnable drums. Each drum has two bag liners made of polyethylene resin.

#### Additional Technical Information

- For Material Safety Data Sheet or additional technical information consult your Solvay sales representative or the website: [www.solvayspecialtypolymers.com](http://www.solvayspecialtypolymers.com)
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#### Notes

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