

Algoflon® F 5/S

Polytetrafluoroethylene
Solvay Specialty Polymers

Message:

Algoflon® F 5/S is a fine cut homopolymer PTFE powder that is white, granular and non-free flowing powder. It is designed for compounds production and in particular it is recommended for use with high filler content. This material exhibits high bulk density, tensile strength and elongation at break. Black compounds based on Algoflon® F5/S show optimum isotropic behaviour and therefore excellent longitudinal mechanical properties.

Main features of Algoflon® F 5/S are:

- High bulk density
- Very good mechanical properties
- Excellent blendability
- Very good electrical properties
- Isotropic properties

General Information			
Features	Good chemical resistance		
Uses	Mixing		
	Additive		
Agency Ratings	FDA 21 CFR 177.1550		
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.16		ASTM D792
Average Particle Size	15	µm	Internal method
Contractility-Radial	3.1	%	ASTM D4894
Volume density	410	g/l	ASTM D4894
Tensile Elongation at Break	400	%	
Tensile Strength	44.0	MPa	ASTM D4894
Additional Information			

Processing

Algoflon® F 5/S is used for preparing filled products based on PTFE resins. Prior to use, the 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/S 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/S based compounds are processed using normal compression moulding 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/S 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

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Recommended distributors for this material

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