

# Algoflon® DF 210 F

## polytetrafluoroethylene

Algoflon® DF 210 F is a white fine coagulated powder and is produced without any intentional use or addition of PFOA. It is recommended as additive in plastics for improving their anti-dripping behavior.

Algoflon® DF 210 F shows very good fibrillation behavior which provides optimum performance as anti-dripping agent.

Main features of Algoflon® DF 210 F include:

- Very good fibrillation properties
- High viscosity
- Good anti-dripping effect

### General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• North America
Features	• Chemical Resistant • High Heat Resistance	• Low Friction • Low Molecular Weight
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	600	µm	Internal Method
Bulk Density	525	g/l	ASTM D4895
Particles - > 300 µm	85.0	%	Internal Method
Shear Creep Viscosity	1.00E+12	cP	Internal Method

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### Additional Information

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#### Processing

- Algoflon® DF 210 F content in the range 0.5 - 1 % by weight should be enough to enhance anti-drip property. It is recommended sieving DF 210 F before mixing at low shear with others ingredients and feeding in plastics like PC or ABS during extrusion. High shear during mixing should be avoided until DF 210 F is not well dispersed.

#### Storage and Handling

- Algoflon® PTFE fine coagulated powders must be stored and handled carefully to avoid excessive shearing and particle fibrillation. Fibrillation is irreversible and damaged particles can appear as defects in manufactured articles.
- PTFE fine coagulated powders must be handled below 19°C because above this temperature the powders are softer and can be more easily laminated. It is recommended sieving of powders below 19°C before mixing with others ingredients. Strong vibrations and shocks must be avoided as much as possible for prevent lumps formation.
- Storage and transportation should be carried out in the range 5 - 19°C. Moreover, the powders must be stored in a dry room because the absorption of moisture could negatively affect its processing.
- 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 coagulated 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 contacts 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® DF 210 F is packaged in 25 kg non returnable drums.

#### Additional Technical Information

- For Material Safety Data Sheet or additional technical information consult your Solvay Specialty Polymers sales representative, or contact us by e-mail.
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#### Notes

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