

Algoflon® DF 261 F

polytetrafluoroethylene

Algoflon® DF 261 F is a white fine coagulated powder. It is designed for paste extrusion in low reduction ratio (RR) range. It is recommended for manufacture high tenacity items as full density tapes, fibers and membranes.

Algoflon® DF 261 F shows large processing range and higher productivity.

Main features of Algoflon® DF 261 F include:

- Low sintering temperature
- Excellent tenacity
- Good stretchability
- Good dimension stability
- Higher productivity

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• North America
Features	• Chemical Resistant • Good Processing Stability • Good Stretchability	• Good Thermal Stability • Low Friction
Uses	• Aerospace Applications • Automotive Applications • Electrical/Electronic Applications • Fibers	• Industrial Applications • Membranes • Wire & Cable Applications • Yarn
Agency Ratings	• FDA ¹	
Appearance	• White	
Forms	• Powder	

Physical	Typical Value	Unit	Test method
Specific Gravity	2.15		ASTM D792
Apparent (Bulk) Density	0.35	g/cm ³	ASTM D4895
Average Particle Size	600	µm	Internal Method
Bulk Density	475	g/l	GE
Stretchability	1500	%	Internal Method

Mechanical	Typical Value	Unit	Test method
Tensile Strength	35.0	MPa	ASTM D4895
Elongation at Break	350	%	ASTM D4895

Thermal	Typical Value	Unit	Test method
Thermal Instability Index	< 15.0		ASTM D4895

Additional Information	Typical Value	Unit	Test method
Reduction Ratio - range	10.0 to 300		Internal Method
Rheometer Pressure - @ RR 400:1	50.0	MPa	ASTM D4895

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Processing

- Algoflon® DF 261 F is processed according to methods conventionally used for paste extrusion. Initially the powder is mixed with a lubricant to produce a paste. This is then compacted into a preform and extruded through a finishing die using a ram extruder. Further processing as calendaring, removal of lubricant, stretching and sintering are carried out to make final products such as yarns.
- Mixing, performing, calendaring, stretching and sintering steps must all be carefully coordinated and controlled to avoid production waste.

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 adding lubricant. 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 261 F is packaged in 25 kg non returnable drums.

Additional Technical Information

- For Material Safety Data Sheet or additional technical information consult your Syensqo sales representative, or contact us by e-mail.

Notes

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

¹ Please contact your account manager to request a food contact statement.

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www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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