

Algoflon® F 7

Polytetrafluoroethylene

Solvay Specialty Polymers

Описание материалов:

Algoflon® F 7 is a fine cut homopolymer PTFE powder that is white, granular and non-free flowing. It is designed for normal compression molding and in particular molding of large billets for low thickness skived tapes down to 1 mil (25 µm).

Algoflon® F 7 exhibits high bulk density, optimum isotropic behavior and very good mechanical and electrical properties.

Main features of Algoflon® F 7 are:

Optimum mechanical properties

Optimum isotropic properties

Very good electrical properties

Excellent surface finishing

Excellent skivability

Главная Информация			
Характеристики	Хорошая химическая стойкость		
Используется	Смешивание		
	Добавка		
Рейтинг агентства	Управление по санитарному надзору за качеством пищевых продуктов и медикаментов 21 CFR 177,155		
Внешний вид	Белый		
Формы	Порошок		
Метод обработки	Прессформа сжатия		
Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес	2.17		ASTM D792
Средний размер частиц ¹	15	µm	Internal method
Сжатие-Радиальная	3.0	%	ASTM D4894
Плотность объема	410	g/l	ASTM D4894
Удлинение при разрыве	400	%	
Прочность на растяжение	44.0	MPa	ASTM D4894
Электрический	Номинальное значение	Единица измерения	Метод испытания
Диэлектрическая прочность	75	kV/mm	ASTM D149
Дополнительная информация			

Processing

Algoflon® F 7 is processed according to methods generally used for normal compression molding. Prior to use, the powder must be conditioned above 19°C/66°F.

The processing involves typically two steps: preforming and sintering. Initially the powder is compacted into a preform. This is then sintered using precise sintering (heating and cooling) cycle to take the temperature above the PTFE crystalline melting point to attain the final article. The preforming pressure, dwell time at maximum sintering temperature and cooling rate are all established according to the shape and size of the final item.

Storage and Handling

Algoflon® PTFE fine cut powders must be stored and handled carefully to achieve defect-free molding. Before use the temperature of the powder must be conditioned above 19°C/66°F (between 21-27°C/70-81°F). Below this temperature the powder is difficult to mold without cracks.

Temperatures that are too high should also 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 7 is packaged in 25 kg nonreturnable drums. Each drum contains 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

NOTE

1. Laser diffraction

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