

Algoflon® D 2512 F

Polytetrafluoroethylene

Solvay Specialty Polymers

Описание материалов:

Algoflon® D 2512 F is a PFOA-free white aqueous PTFE dispersion. It is designed for impregnation processes and is particularly recommended for production of fabrics and laminates.

Algoflon® D 2512 F exhibits superior wetting properties and high shear stability. Algoflon® D 2512 F has very good film forming behavior and is well-suited for both basecoat and topcoat passes to produce final items with very high gloss.

Main features of Algoflon® D 2512 F PTFE dispersion are:

NO polyethoxylated alkylphenols

Superior wetting properties

High shear stability

Главная Информация			
Характеристики	Низкий коэффициент трения Хорошая химическая стойкость Теплостойкость, высокая		
Используется	Применение окунания Нанесение покрытия		
Внешний вид	Белый		
Формы	Латекс		
Физический	Номинальное значение	Единица измерения	Метод испытания
1% потеря веса (TGA)	> 20000	m ² /kg	Internal method
РН	> 9.0		ASTM D4441
Плотность	1.510	g/cm ³	ASTM D4441
Вязкость поля Брука-(20 °)	25	mPa·s	ASTM D4441
Содержание ПТФЭ-(На смеси)	60.0	wt%	ASTM D4441
Неионный ПАВ-(На смеси)	3.5	wt%	ASTM D4441
Дополнительная информация	Номинальное значение	Единица измерения	Метод испытания

Processing

Algoflon® D 2512 F is processed according to methods generally used for conventional impregnation technology. Generally the procedure involves dip-coating and then heating to remove water and surfactant from the impregnated item. Depending on the application, sintering above the crystalline melting point of the coated resin may be carried out to obtain the finished coated articles. Multiple passes may be required to obtain the desired PTFE load and coating thickness.

Algoflon® D 2512 F can be processed neat or appropriately formulated. Also, it can be used diluted using distilled or deionized water. Formulation, line speed and oven temperature must all be well controlled for optimized features of the coated substrates.

Storage and Handling

Algoflon® PTFE dispersions must be stored under suitable temperature conditions to ensure prolonged stability. Temperatures lower than 5°C must be avoided to prevent irreversible settling. Also, some settling may occur on prolonged standing and/or heat exposure. It is therefore strongly recommended that the product is always kept at temperatures below 35°C. The optimum storage temperature range is 10-25°C. It is also advisable that the product is homogenized by gentle rolling or stirring once per month and prior to use.

Prolonged exposure of the liquid to air could lead to some coagulation at the surface due to water evaporation. For this reason and also to avoid contamination, it is recommended to keep the containers closed when not in use.

Safety and Toxicology

Before using Algoflon® PTFE dispersions 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. Venting 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® D 2512 F is packaged in either 30 kg drums or 1500 kg IBC's.

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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