

Technical Information

INOFLON[®] PFA 8003HS is a melt processable fluoroplastic resin available in pellet form. This resin is modified form of INOFLON[®] PFA 8003 with several additional benefits including enhanced purity and improved thermal stability while processing. It can be processed by extrusion, injection, transfer and compression molding. Applications for INOFLON[®] PFA 8003HS include semiconductor components, pipe linings for the production of ultra pure chemicals, tubing, linings of valves and fittings used in the chemical processing industries.

Product Features

- ◆ Smooth surfaces
- ◆ Excellent chemical resistance
- ◆ Service temperature up to 260°C (500°F)
- ◆ Good electrical and mechanical properties
- ◆ High thermal stability

Typical Properties of INOFLON[®] PFA 8003HS

Properties	Test Method	Unit	Nominal Value
Melt Flow Rate	ASTM D 1238	g/10 min	2.3
Specific Gravity	ASTM D 792	-	2.15
Melting Points	ASTM D 4591	°C (°F)	310 (590)
Tensile Strength	ASTM D 3307	MPa (psi)	28 (4061)
Elongation	ASTM D 3307	%	300

Note: These are typical properties and not to be used for specification purpose

FDA Compliance

INOFLON[®] PFA comply with FDA Regulation 21 CFR 177.1550 and when products made from INOFLON[®] PFA 8003HS are correctly processed, that is sintered at high temperature practiced by industries, they may comply with FDA Regulation 21 CFR 177.1550 for use in contact with food.

Packaging

INOFLON[®] PFA 8003HS pellets are packaged in 25 kg bags.

Handling and storage

INOFLON[®] PFA 8003HS can be stored for a relatively long period of time provided they are stored in a clean place, dry place and protected by direct sun light and possible contamination.

Processing

INOFLON[®] PFA 8003HS can be processed by conventional melt processing technique like extrusion, injection, compression, and transfer molding. Corrosion resistance metals should be used in contact with molten PFA resin. PFA generally processed at high temperature approximately around 390°C (734°F).

Safety precautions

Handling and processing of PFA must be done in ventilated areas to prevent personnel exposure to the fumes liberated during sintering and heating of the resin. Fumes should not be inhaled and eye and skin contact must be avoided. In case of skin contact wash with soap and water immediately. In case of eye contact, flush with water immediately and seek medical help. Smoking tobacco or cigarettes contaminated with PFA may result in a flu-like condition including chills, fever and sore throat that may not occur until a few hours after exposure has taken place.

Mixtures of some metal powders such as magnesium or aluminum are flammable and explosive under some conditions. Please read the Material Safety Data Sheet and the detailed information in the "Guide to the safe handling of Fluoropolymer Resins" published by the Fluoropolymer Division of The Society of the Plastics Industry available at www.fluoropolymers.org

INOFLON[®] is the brand name of Gujarat Fluorochemicals Limited (GFL) used for its brand of fluoropolymer resin. INOFLON[®] can be used in applications duly approved by GFL. Customers who plan to use the word INOFLON[®] as the trade mark on or relation to their own fluoropolymer parts and other products in any style or combination or in any manner whatsoever must contact GFL for prior permission for such use. No consumer/user of GFL

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Note warning: Do not use any of INOFLON[®] PFA resins in medical devices that are designed for permanent implantation in the human body. For other medical uses, prior permission of GFL may be sought.

For more information, please contact Gujarat Fluorochemicals Limited

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