INOFLON® Fluoropolymers

INOFLON® PFA 8003HSP

GUJARAT FLUOROCHEMICALS
VALUE THROUGH GREEN CHEMISTRY

TECHNICAL DATA SHEET

TECHNICAL INFORMATION

INOFLON® PFA 8003HSP, ultra-high pure grade is a melt-processable fluoroplastic resin available in pellet form. This is modified form of PFA 8003HS with additional benefit of enhanced purity and improved thermal stability while processing. It can be processed by extrusion, Injection and Transfer Molding Process. Applications for INOFLON® PFA 8003HSP include semiconductor components, Tubing, Linings of valves and fittings used in the chemical processing Industries requiring superior electrical, chemical, and thermal properties.

PRODUCT FEATURES

- Ultra-high pure with extremely low level of extractable ions
- Excellent chemical resistance
- Service temperature up to 260°C (500°F)
- Good electrical and mechanical properties
- SEMI F57 and SEMI C90 compliant
- Smooth surface and good non-stick characteristics

TYPICAL PROPERTIES

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)	307 (585)
Tensile strength	ASTM D 3307	MPa (psi)	Min. 28 (4061)
Elongation	ASTM D 3307	%	Min. 300

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

FDA COMPLIANCE

INOFLON® PFA comply with FDA Regulation 21CFR 177.1550 and when products made from INOFLON® PFA 8015HSP are correctly processed at high temperature practiced by industries, it may comply with FDA Regulation 21CFR 177.1550 for use in contact with food.

PACKAGING

INOFLON® PFA 8003HSP pellets are packaged in 25 kg bags.

INOFLON® PFA 8003HSP

HANDLING AND STORAGE

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

PROCESSING

INOFLON® PFA 8003HSP can be processed by conventional melt processing techniques like extrusion, Transfer Molding especially when ultra-low levels of extractable ions are required, making it suitable for semiconductor Industries. Corrosion resistance metals should be used in contact with molten PFA resin. PFA generally processed at a 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 processing 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 for the Safe Handling of Fluoropolymer Resins" available at www.plasticseurope.org.

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.

SALES AND TECHNICAL SUPPORT

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