

Technical Information

INOFLON[®] FEP 4103 is a melt-processable fluoroplastic resin available in powder form. FEP 4103 powder specially designed for use in powder coating application.

Product Features

- ◆ Smooth surfaces
- ◆ Excellent chemical resistance
- ◆ Service temperature up to 200°C (392°F)
- ◆ Good electrical insulation and mechanical properties
- ◆ Excellent non-stick performance
- ◆ Good transparency
- ◆ Good electrostatics and fluidization

Typical Properties of INOFLON[®] FEP 4103

| Properties | Test Method | Unit | Nominal Value |
|--------------------|-------------|-----------|---------------|
| Melt Flow Rate | ASTM D 1238 | g/10 min | 3 |
| Mean Particle Size | - | µm | 20 |
| Bulk Density | ASTM D 1895 | g/l | 400 |
| Specific Gravity | ASTM D 792 | - | 2.15 |
| Melting Points | ASTM D 4591 | °C (°F) | 260 (500) |
| Tensile Strength | ASTM D 2116 | MPa (psi) | 28 (4060) |
| Elongation | ASTM D 2116 | % | 350 |

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

FDA Compliance

INOFLON[®] FEP comply with FDA Regulation 21 CFR 177.1550 and when products made from INOFLON[®] FEP 4103 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[®] FEP 4103 powder is supplied in 25 kg quantities .

Handling and storage

INOFLON[®] FEP 4103 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[®] FEP 4103 powder is processed by coating.

Safety precautions

Handling and processing of FEP 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 FEP 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 fluoropolymer resin is permitted to claim that their products contain INOFLON[®] without prior permission from GFL.

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Note warning: Do not use any of INOFLON[®] FEP 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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