PFA C403

Everflon+™ Fluoropolymers Compound

Low MFR static dissipative resin

DESCRIPTION

Everflon™ PFA C-403 (perfluoroalkoxy) fluoropolymer resins combine the chemical and high temperature resistance of Everflon™ PFA with anti-static levels of electrical conductivity.

Properly processed products made from Everflon™ PFA C-403 resins provide the superior properties typical of fluoropolymers:

- Retention of properties after service estimated at 250 °C (482 °F);
- Useful properties at –196 °C (–321 °F);
- And chemical inertness to nearly all industrial chemicals and solvents.

Molded products have moderate stiffness, excellent toughness, low coefficient of friction, non-stick characteristics, resistance to creep at high service temperatures, and excellent weather resistance.

These resins can be processed by traditional melt extrusion and molding processes. They have high melt strength and thermal stability at high processing temperatures.

DATA LIST

Tentative Typical Property Data for Everflon™ PFA C-403 Fluoropolymer Resin

Property	Test Method		Unit	Typical Value
GENERAL				
Melt Flow Rate at 372 °C (702 °F)/5.0 kg weight	ISO 12086	ASTM D3307	g/10 min	3
Melting Point	—	D4591	°C	300
Specific Gravity	—	D792	—	2.15
Critical Shear Rate, 372 °C (702 °F)	—	—	1/s	12
MECHANICAL				
Tensile Strength	ISO 12086	ASTM D3307	MPa (psi)	36 (5200)
MIT Folding Endurance	—	ASTM D2176	Cycles	80,000
Elongation	ISO 12086	ASTM D3307	%	300
ELECTRICAL				
Volume Resistivity	ISO 3915	—	ohm·m	0.1
OTHER				
Weather and Chemical Resistance	—	—	—	Excellent

Note: For more information of PFA properties, please visit www.everflon.com or PFA TechBook. These results are based on laboratory tests, under controlled conditions, and do not reflect performance under actual fire conditions.

TYPICAL APPLICATIONS

Anti-static linings of components used in the chemical processing industries; industrial film; articles requiring superior electrical, chemical, and thermal properties.

PROCESSING

Everflon™ PFA C-403 fluoropolymer resins can be processed by conventional thermoplastic techniques: melt extrusion and compression, transfer, and blow molding processes. Drying at 100 °C (212 °F) for 4 hours is suggested to remove any absorbed moisture. Corrosion-resistant metals should be used in contact with molten resin. Extruder barrel should be long, L/D ratio 20:1 to 25:1, to provide residence time for heating the resin to approximately 390 °C (734 °F).

PRECAUTION

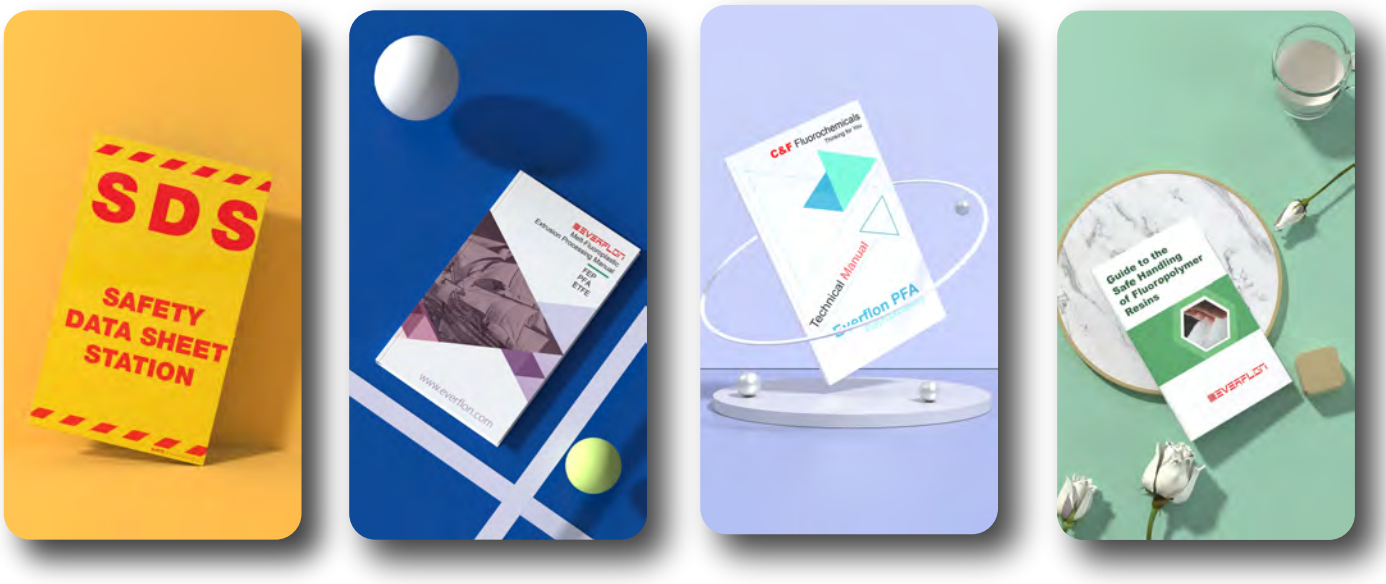
Before using Everflon™ PFA C-403 resin, refer to the Safety Data Sheet and the latest edition of “The Guide to the Safe Handling of Fluoropolymer Resins”

Open and use containers only in well-ventilated areas using local exhaust ventilation (LEV). Vapors and fumes liberated during hot processing of Everflon™ PFA C-403 should be exhausted completely from the work area. Contamination of tobacco with these polymers must be avoided. Vapors and fumes liberated during hot processing that are not properly exhausted, or from smoking tobacco or cigarettes contaminated with Everflon™ PFA C-403 , may cause flu-like symptoms, such as chills, fever, and sore throat. This may not occur until several hours after exposure and will typically pass within about 24 hours. Mixtures with some finely divided metals, such as magnesium or aluminum, can be flammable or explosive under some conditions.

HANDING & PACKAGE

The properties of Everflon™ PFA C-403 resins are not affected by storage time. Ambient storage conditions should be designed to avoid airborne contamination and water condensation on the resin when it is removed from containers. Drying at 100 °C (212 °F) for 4 hours is suggested to remove any absorbed moisture.

Everflon™ PFA C-403 is supplied as pellets and packaged in 25-kg drums with a polyethylene inner lining.



ABOUT C&F AND EVERFLON FLUOROPOLYMERS

Everflon™ is brand of C&F Group dealing in fluoropolymers materials including PTFE.FEP.PFA.ETFE and PVDF. On the basis of Everflon, C&F also developing the fluoropolymer applications including tubing,coating and films.

More information could visit www.everflon.com or Everflon™ Fluoropolymers Introduction and C&F Chemicals Book

For more information, visit www.everflon.com
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