

Fluon[®] FP-E-93000 XL NAT HF *Typical Properties*

DESCRIPTION

Fluon[®] FP-E-93000 XL NAT HF (462131905) contains a cross-linking promoter, TAIC (triallyl isocyanurate) in an ETFE (ethylene tetrafluoroethylene) polymer matrix. This cross-linkable compound is supplied in cylindrical pellet form. These pellets are approximately 0.125" long by 0.080" diameter.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Units	Typical Property
Melt Flow Rate	ASTM D-3159	g/10 minutes	12.5
Bulk Density	ASTM D-1895	grams/liter	900
Yellowness Index	AGC Internal	-	10
Moisture Content	AGC Internal	%	<0.1

BENEFITS

Cross-linking ETFE increases mechanical properties such as scrape abrasion, cut-through resistance, and tensile strength, especially at elevated temperatures. Flammability of the cross-linked polymer is also improved.

PROCESSING

This ready-to-use product can be processed using conventional thermoplastic techniques such as compression and injection molding and melt extrusion under standard ETFE operating conditions.

The processed article can be cross-linked using electron-beam radiation or gamma radiation.

It is strongly recommended that process equipment exposed to molten resin be made of corrosion-resistant metals such as Monel, Inconel, or Hastelloy.

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HAZARDOUS SUBSTANCES

This product does not contain lead, hexavalent chromium, or cadmium, and is used in applications where RoHS (Restrictions on the use of Certain Hazardous Substances) compliance is required.

HANDLING PRECAUTIONS

Heating Fluon® products in excess of 750°F (399°C) can produce toxic fumes. It is, therefore, necessary to provide local exhaust ventilation in areas where Fluon® products are exposed to high temperatures. Avoid breathing fumes or contaminating smoking tobacco with fumes, powder, or dust.

Thermal decomposition of this product will generate hydrogen fluoride, which is corrosive. Corrosion resistance materials are required for prolonged contact with molten resin.

SAFE HANDLING INFORMATION

A summary of the hazards, as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200 for this product are:

Physical hazards: None

Health hazards: None

FOR ADDITIONAL INFORMATION AND HANDLING INSTRUCTIONS READ AGC CHEMICALS AMERICAS, INC. MATERIAL SAFETY DATA SHEET.

For more information and samples contact

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