

Fluon[®] FP-EF-102 Typical Properties

DESCRIPTION

Fluon[®] FP-EF-102 (464 102 518) is a 10% glass reinforced ETFE product designed for use in injection molding or extrusion applications. The glass fibers are added to improve the physical properties of ETFE. This compound is supplied in cylindrical pellet form. These pellets are approximately 0.125" long by 0.100" diameter.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Units	Typical Property
Melt Flow Rate	ASTM D-2116	g/10 minutes	3.5
Specific Gravity	ASTM D-792		1.81
Bulk Density	ASTM D-1895	grams/liter	930
Nominal Filler	AGC	%	10.0
Tensile Strength	ASTM D-638	psi	5,800
Elongation (%)	ASTM D-638	%	20
Flexural Modulus	ASTM D-790	psi	350,000
Flexural Strength	ASTM D-790	psi	8,000
Notched Izod	ASTM D-256	ft-lb/in	6
HDT @ 0.45 MPa	ASTM D-648	°C	245

END USES

Demanding applications where the thermal and chemical resistance of ETFE is required with additional mechanical toughness provided by glass-fiber reinforcement.

PROCESSING

This product can be processed using standard ETFE condition in conventional thermoplastic techniques such as injection molding and melts extrusion.

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AGC
AGC Chemicals Americans, Inc
Business & Technical Center
55 E. Uwchlan Ave, Suite 201
Exton, PA 19341
Phone: 610.423.4300
Fax: 610.423.4301
<http://www.agcchem.com>

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PACKAGING

Fluon[®] FP-EF-102 is packed in fiber drums containing 130 pounds.

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

AGC Chemicals Americas, Inc.
55 E. Uwchlan Avenue, Suite 201
Exton, PA 19341

Phone: (800) 424-PTFE (7833)

Fax: (610) 423-4301

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