

Fluon[®] AH-ETFE Typical Properties

DESCRIPTION

Fluon AH-ETFE are a series of compounds designed for use in automotive fuel hose. This group of products is ideal for hose constructions which require chemical resistance, permeation resistance, and an unsurpassed bond to polyamide materials. These products are supplied in cylindrical pellet form. These pellets are approximately 0.080" diameter x 0.125" long.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Units	Fluon LM-ETFE AH-600	Fluon ETFE AH-700	Fluon ETFE AH-800
Melt Flow Rate	ASTM D-3159	g/10 min	25	13	25
Bulk Density	ASTM D-1895	g/L	1000	1000	1000
Melt Point	AGC Internal	deg C	230	258	255
Specific Gravity	ASTM D-3159	-	1.76	1.73	1.73
MIT Flex Life	AGC Internal	no. cycles	250,000	57,000	35,000

NOTE: The data listed here represents typical values for the stated grades of Fluon[®] Melt Processable Compounds. This information should be used as a guide only and not to establish specification limits or design criteria. AGC Chemicals Americas assumes no obligation or liability for any advice furnished by us or for results obtained with respect to this product. All such advice is provided free of charge and the buyer assumes sole responsibility for results obtained in reliance thereon.

BENEFITS

AH-600 offers a lower melting compound that results in a wider process window and better compatibility with some polyamide nylons for co-extrusion; AH-700 balances performance and economics; AH-800 has a higher upper-end temperature rating (approaching 200°C) and improved resistance to stress cracks at elevated temperatures. Can be customized to specifications.

APPLICATIONS

- Automotive fuel hose
- AC compressor hose
- Film & battery applications
- Multi-layer film

PROCESSING

Fluon AH-ETFE fluoropolymer resins can be processed using conventional melt processable techniques including extrusion, injection molding, blow molding, compression molding, and transfer molding. 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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AGC FLUOROCOMPOUNDS GROUP

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

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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.

STORAGE

The properties of Fluon AH-ETFE are not impacted by storage time. Storage and handling facilities should be designed to minimize contact with airborne contamination and the formation of condensation on the resin. Fluoropolymers are not hygroscopic and will not typically need to be dried prior to use. However, masterbatches and conductives may contain materials that do absorb water and should be dried prior to use.

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 FluoroCompounds Group

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

Phone: (800) 424-7833 USA Only

(610) 423-4300

Fax: (610) 423-4301

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Fluon AH-ETFE.DOC 07/2015