

Fluon[®] FC 174 Typical Properties

DESCRIPTION

Fluon[®] FC 174 (310 174 040) is a 15% glass-filled, 5% molybdenum disulfide PTFE product designed for use in seal applications. This compound is supplied dry powder form.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Units	Typical Property
Specific Gravity	ASTM D-4745		2.26
Filler Content	ASTM D-4745	%	20
Tensile Strength	ASTM D-4745	PSI	3,600
Elongation	ASTM D-4745	%	220
Deformation Under Load	AGC Chemicals	%	3.0
Hardness	ASTM D-2240		
Peak		Shore D	63
Sustained		Shore D	62
Wear Performance @ 5,000 PV	ASTM D-3702		
Wear Factor, K		in ³ -min/ft _{lb} -hr	6
Dynamic Coefficient of Friction			0.06

END USES

Glass fibers & molybdenum disulfide are added to improve the wear properties, compressive strength, and creep resistance of PTFE without sacrificing the chemical and thermal resistance of the polymer.

PROCESSING

This product can be processed using compression molding equipment to mold thick-walled parts.

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PACKAGING

Fluon® FC 174 is packaged in a lined cardboard fiber drum 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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