

Fluon[®] FC 446 Typical Properties

DESCRIPTION

Fluon[®] FC 446 (340 446 030) is a 60% bronze powder filled PTFE product designed for use in seal applications. This compound is supplied in round pelletized form. These pellets range in size from approximately 350 – 800 microns.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Units	Typical Property
Bulk Density	ASTM D-4894	Grams/Liter	1350
Shrinkage	AGC Billet Method	%	1.7
Specific Gravity	ASTM D-4745		3.74
Filler Content	ASTM D-4745	%	60
Tensile Strength	ASTM D-4745	PSI	2,500
Elongation	ASTM D-4745	%	120
Hardness			
Peak	ASTM D-2240	Shore D	61
Sustained			59

END USES

Bronze powder is added to PTFE to increase the thermal and electrical conductivity and to improve the wear properties and deformation resistance without sacrificing the chemical and thermal resistance of the polymer.

PROCESSING

This product can be processed using automatic molding equipment due to its high bulk density and flow properties. This product can flow from standard design hoppers and other bulk feeding equipment.

Fluon[®] is a registered trademark of Asahi Glass Company, LTD.

The information provided herein is related only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any process. NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER. The user of this product has the sole responsibility to determine the suitability of the product for any use and manner of use intended. This document may be revised after its issuance, and the user is advised to use the latest revision.

Fluon® FC 446 *Typical Properties*

PACKAGING

Fluon® FC 446 (340 446 030) is packed in a lined cardboard box containing 35 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