

Fluon[®] FC 146 Typical Properties

DESCRIPTION

Fluon[®] FC 146 (310 146 001) is a bronze powder filled PTFE product. This compound is supplied dry powder form.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Units	Typical Property
Specific Gravity	ASTM D-4745		3.91
Filler Content	ASTM D-4745	%	60
Tensile Strength	ASTM D-4745	PSI	3,000
Elongation	ASTM D-4745	%	200
Deformation Under Load	AGC Chemicals	%	3.5
Hardness	ASTM D-2240		
Peak		Shore D	69
Sustained		Shore D	67
Wear Performance @ 5,000 PV	ASTM D-3702		
Wear Factor, K		in ³ -min/ft _{lb} -hr	5
Dynamic Coefficient of Friction			0.130

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 compression molding equipment to mold thick-walled parts.

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PACKAGING

Fluon® FC 146 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

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