

Fluon[®] FC 144 Typical Properties

DESCRIPTION

Fluon[®] FC 144 (310 144 003) 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 | | 3.08 |
| Filler Content | ASTM D-4745 | % | 40 |
| Tensile Strength | ASTM D-4745 | PSI | 4,100 |
| Elongation | ASTM D-4745 | % | 250 |
| Deformation Under Load | AGC Chemicals | % | 13 |
| Hardness | ASTM D-2240 | | |
| Peak | | Shore D | 64 |
| Sustained | | Shore D | 62 |
| 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 144 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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