

## Fluon+<sup>TM</sup> EM-20010 Product Information

### Description

Fluon+<sup>TM</sup> EM-20010 (464015014) is a "ready-to-use" antimicrobial fluoropolymer compound of specialty additive-filled ETFE (ethylene-co-tetrafluoroethylene). This compound improves upon the inherent cleanability and anti-fungal properties of ETFE by adding the proprietary filler. As a result, this ETFE-based material is also resistant to microbial growth for applications which demand safe and sanitary conditions. This product is supplied in cylindrical pellet form, approximately 0.125" long by 0.080" diameter.

### Typical Physical Properties

Property	Test Method	Units	Typical Property
Melt Flow Rate	ASTM D-3159	g/10 minutes	14
Bulk Density	ASTM D-1895	g/L	870
Moisture Content	AGC	%	<0.1

### End Uses

Critical applications where the thermal and chemical resistance and cleanability of ETFE are required along with antimicrobial properties provided by the proprietary additive.

- Wall coverings
- Protective coverings for medical and dental equipment
- Food and beverage tubing and hose
- Desk, countertop and table coverings
- Skins and linings for cleanroom equipment and touchscreens

### Antimicrobial Test Standards

Fluon+ EM-20010 reduces and eliminates viral and bacterial growth.

- ISO Standard 22196: reduction of E. coli by 99.999% and S. aureus by 98.51% in 24 hours.
- ISO Standard 21702: eliminates COVID-19 virus up to 96% in one hour.

### Processing

This product can be processed using conventional thermoplastic techniques such as film or tube extrusion or injection molding under standard ETFE operating conditions. It is strongly recommended that process equipment exposed to molten resin be made of corrosion-resistant metals such as Monel, Inconel, or Hastelloy.



## Fluon+™ EM-20010 Product Information

### Packaging

Fluon+ EM-20010 is packaged in a lined plastic keg containing 55 pounds or 25 kilograms and is also packaged in a lined fiber drum containing 225 lbs.

### Hazardous Substances

This product does not contain lead, hexavalent chromium, or cadmium, and are used in applications where RoHS (Restrictions on the use of Certain Hazardous Substances) compliance is required.

### Handling Precautions

Heating Fluon® and 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.

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