Fluon+™ MPC
Melt Processable Compounds

AGC

ETFE Cross-linkable Compounds

Fluon+™ ETFE Cross-linkable Compounds contain a cross-linking agent, which is used to enhance the toughness of ETFE, commonly required in automotive or aerospace cables. Cross-linking ETFE increases its mechanical properties such as abrasion resistance, cut-through resistance, and tensile strength, especially at elevated temperatures.

These products are manufactured as ready-to-use and can be used in combination with Fluon+ MPC Color Concentrates for pigmented cables. Typical customization of cross-linkable product includes desired color, flexibility, melt flow rate of final compound, conductivity level and amount of cross-linking needed for the application.

The processed article can be cross-linked using electron-beam radiation or gamma-ray radiation.

Common Products

	Ultra-flexible, low melt	High-flow	Flexible	Pre-pigmented white
Cross-linkable ETFE	AR-3300XL	FP-E-93000 XL NATURAL HF	FP-AR-12024XL	FP-E-12001XL WHITE

Typical Applications

- Insulation of airframe wire
- Shipboard wiring
- Industrial wiring

Processing Techniques

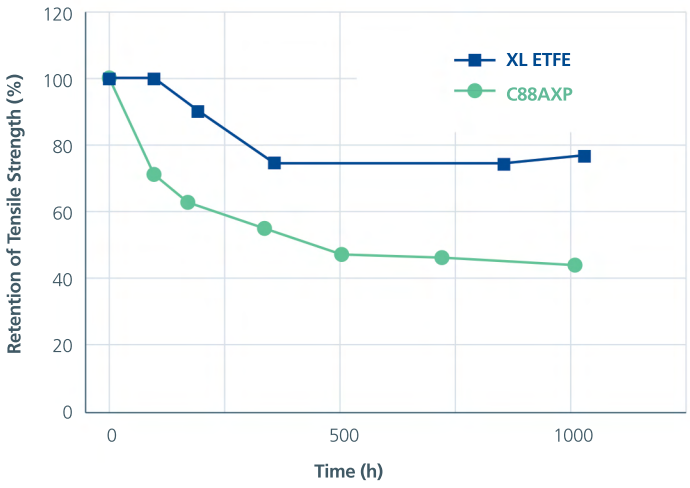
- Extrusion
- Compression molding
- Cross-linking using electron-beam or gamma-ray radiation

Typical Physical Properties Measured

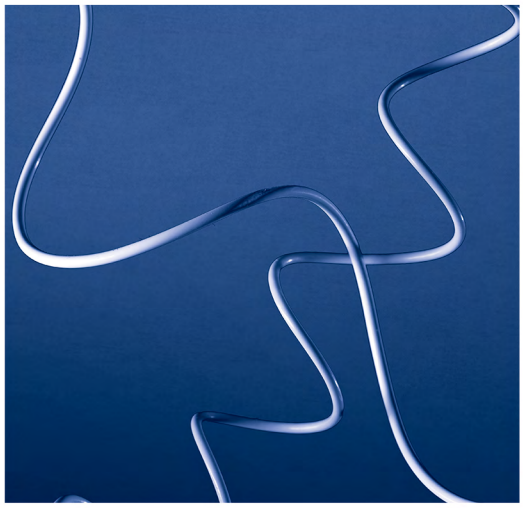
Property	Test Method	Units	FP-E-93000XL HF Typical Value
Melt Flow Rate	ASTM D-3159	g/10 minutes	16
Bulk Density	ASTM D-1895	g/L	880
Melt Point	ASTM D-3159	°C	260
Tensile Strength	ASTM D-638	MPa	48
Tensile Elongation	ASTM D-638	%	415

Retention of Tensile Strength

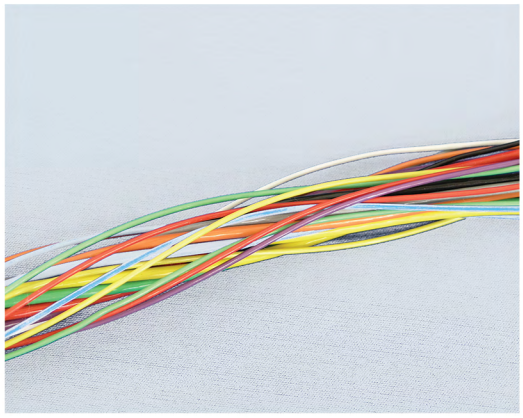
Differences in retention of tensile strength between cross-linked and un-cross-linked ETFE at 200°C exposure.



Contact your AGC Chemicals commercial representative for more information on specific grades or for technical datasheets.



Cross-linking enhances toughness of ETFE



Increased resistance and strength

AGC Chemicals Americas, Inc.
55 E. Uwchlan Avenue, Suite 201
Exton, PA 19341
United States of America

Telephone: +1 610-423-4300
Toll Free (US only): 800-424-7833
Fax: +1 610-423-4305

www.agcchem.com
Visit our website for compliance information and industry certifications.