

Reinforced Compounds

Fluon+TM Reinforced Compounds incorporate glass, carbon, or mineral fillers for enhanced dimensional stability, abrasion resistance, or physical strength. These products can be used in demanding applications where the thermal and chemical resistance of a fluoropolymer is required with additional mechanical toughness provided by the addition of a fiber or other reinforcing filler.

Common Products

Resin	PFA	MFA	FEP	ETFE	PVDF	ECTFE
Reinforced	Standard	Custom	Custom	Standard	Custom	Custom

Typical Physical Properties Measured

Property	Test Method	Units
Melt Flow Rate	ASTM D-2116	g/10 minutes
Specific Gravity	ASTM D-792	
Bulk Density	ASTM D-1895	grams/liter
Nominal Filler	AGC	%
Tensile Strength	ASTM D-638	MPa
Tensile Elongation	ASTM D-638	%
Flexural Modulus	ASTM D-790	MPa
Flexural Strength	ASTM D-790	MPa

Typical Applications

- Seals
- Chemical pump casings
- Downhole wire

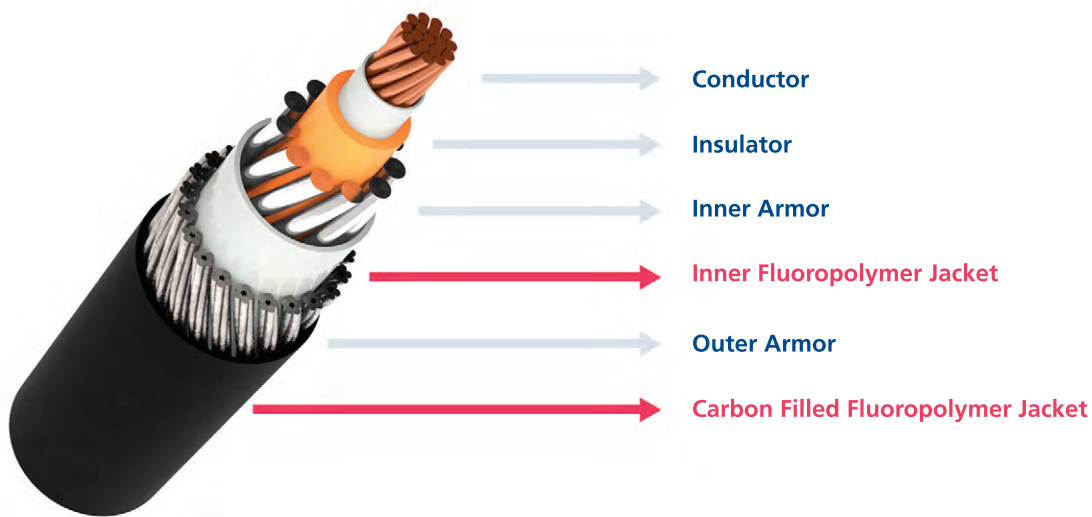
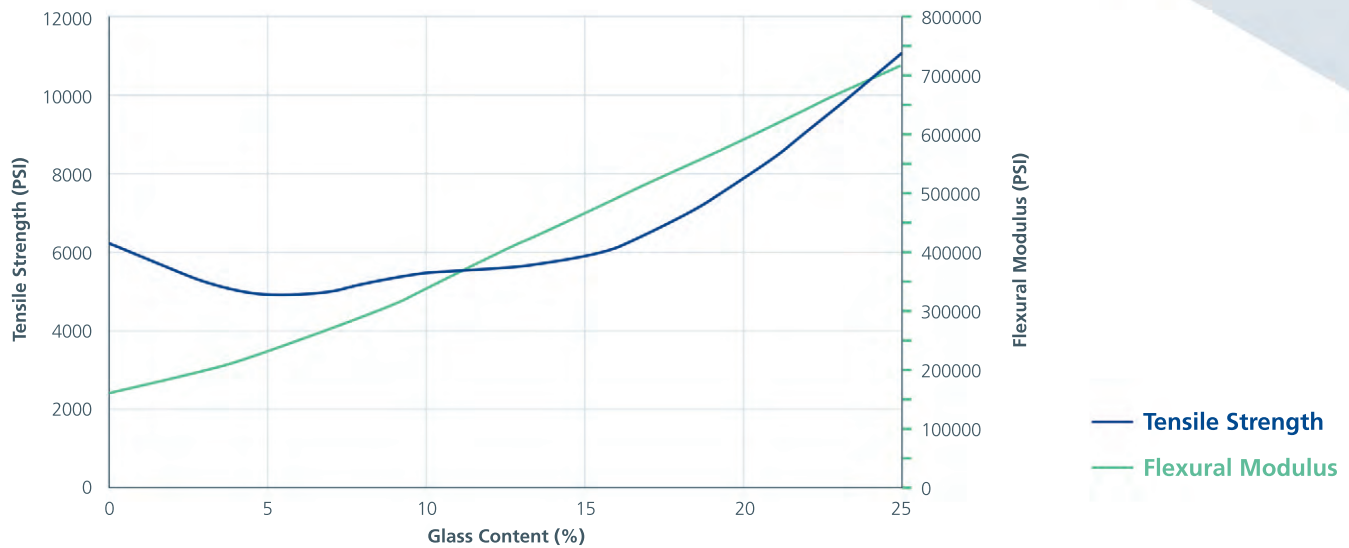
Processing Techniques

- Extrusion
- Injection molding
- Compression molding



Changes in Mechanical Properties for ETFE-based, Glass Reinforced Compounds

Figure below provides an example of how mechanical properties of ETFE are affected through the use of reinforcing glass fibers.



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



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