Fluon+™ MPC
Melt Processable Compounds

AGC

Flexible AR Compounds

Fluon+™ Flexible AR are melt-processable compounds based on modified ethylene / tetrafluoroethylene (ETFE) copolymer and a fluoroelastomer. Fluon+ AR grades maintain many of the desirable properties of ETFE, but in a form that is much more flexible (see Fig. 1). These materials can be used in many applications including wire and cable (automotive, industrial, aerospace, transit, and appliance markets); films and sheets; tubing and pipe; and electronic components.

The heat resistance of flexible AR compounds can be enhanced by radiation curing and are cross-linkable without the presence of curing agents or coagents. Color can be customized by incorporating our Fluon+ ETFE C-88AXM color concentrates.

Common Products

Products	AR-8018TD	AR-3300N	AR-3300P	AR-3300BK
	Higher melt point	Flexible processing window	V-0 flammability rated	Pre-pigmented black

Typical Physical Properties Measured

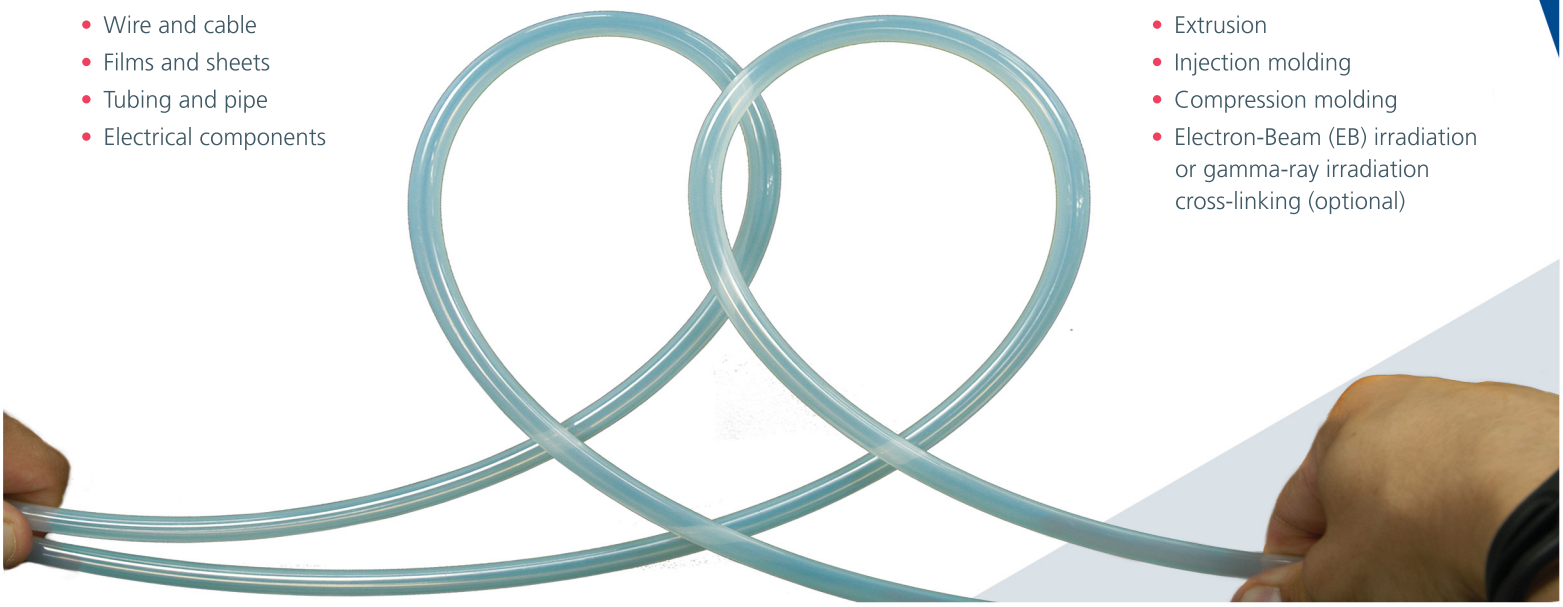
Property	Test Method	Units	AR-3300N Typical Value
Melt Flow Rate	ASTM D-3159	g/10 minutes	9
Melting Point	AGC Internal	°C	225
Tensile Strength	ASTM D-638	MPa	10
Tensile Elongation	ASTM D-638	%	440
Flex Modulus	ASTM D-790	MPa	140

Typical Applications

- Wire and cable
- Films and sheets
- Tubing and pipe
- Electrical components

Processing Techniques

- Extrusion
- Injection molding
- Compression molding
- Electron-Beam (EB) irradiation or gamma-ray irradiation cross-linking (optional)



Flexibility

Fluon+ AR grades maintain many of the desirable properties of ETFE, but in a form that is much more flexible (see Fig. 1).

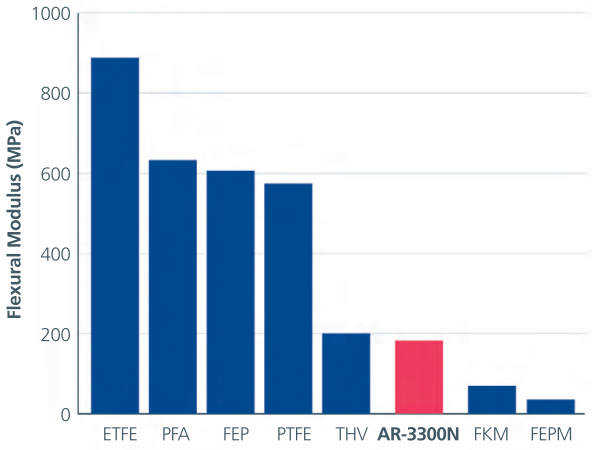


Figure 1. Flexibility as measured by Flexural Modulus of AR-3300N compared to various fluoropolymer materials.

Heat Aging

The heat resistance of Fluon+ Flexible AR grades can be improved by radiation curing. The product is cross-linkable without the presence of curing agents or co-agents. The recommended dosage is 1-10 Mrads of electron-beam or gamma-ray radiation. Figure 2 shows the effect of cross-linking on AR-3300N and how the compound retains strength at elevated temperatures.

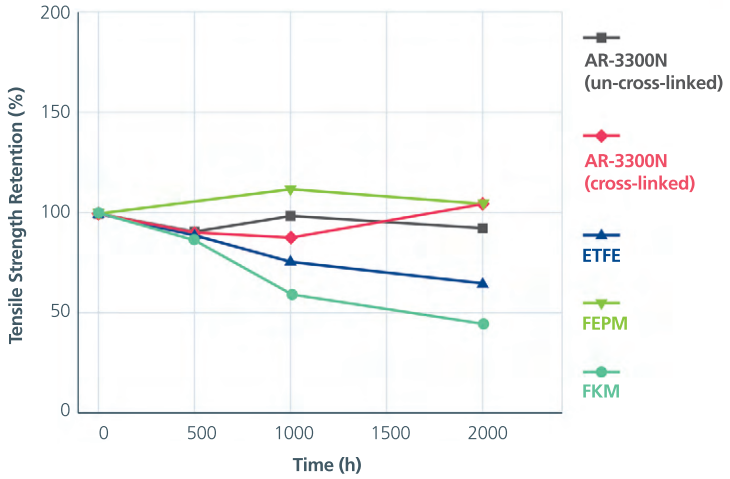


Figure 2. Tensile strength retention of AR-3300N (cross-linked and un-cross-linked) at 200 °C.

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

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.