



Fluon+™ AR Series

High Performance Fluorinated
Thermoplastic Elastomers

Fluon+™ AR Series is a range of thermoplastic elastomers, based on ETFE, that provides all the desirable properties of a fluoropolymer with greatly enhanced flexibility, making them ideal for the more challenging applications within new aerospace, industry 4.0 and the energy sectors.

AR Series products are capable of continuous operation at 200°C and their properties can be enhanced using electron beam radiation crosslinking.

Features

- Exceptional flexibility
- High temperature capability
- Resistant to a wide range of chemicals
- Superb electrical insulation properties
- Low density compared to other fluoropolymers

Benefits

- Easier handling of large pipes and cables
- Allows continuous operation up to 200°C
- Suitable for use in most media
- Long lifetime for cables including HV
- Allows for lightweight design

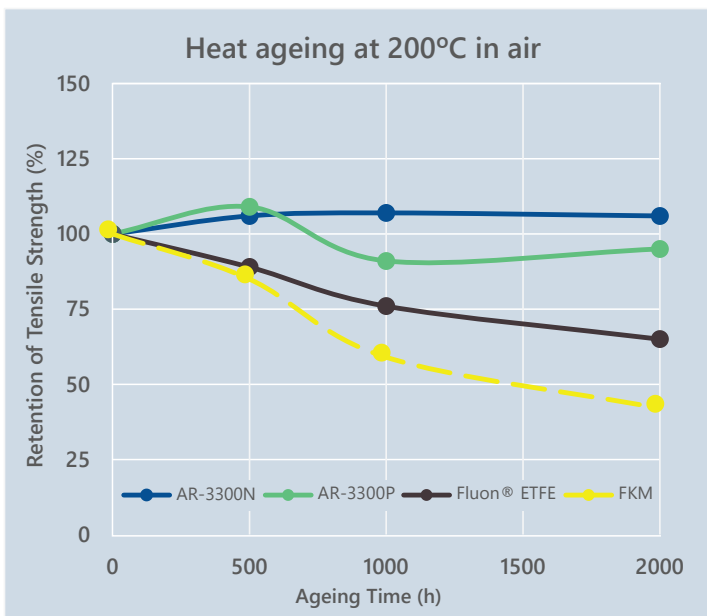
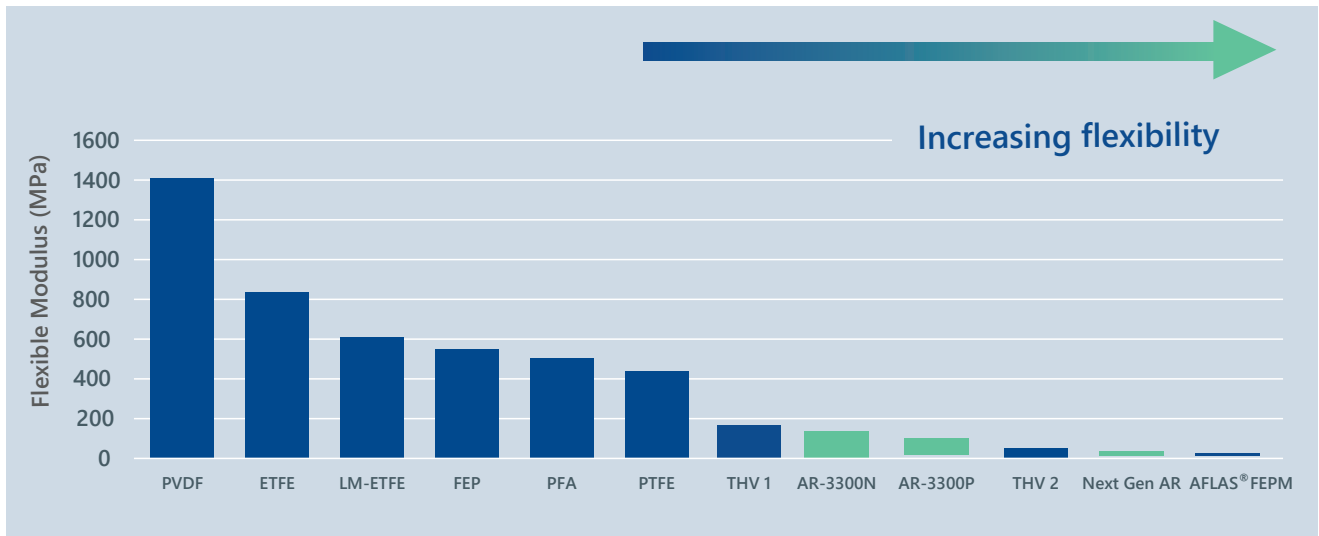
Performance

Property	Unit	AR-3300N	AR-3300P	AR-3300XL	AR-3300LH	Next Gen
Flex Modulus	MPa	140	100	100	100	25
Melting Point	°C	225	225	225	190	225
MFR (297°C, 5Kg)	g/10min	9	8	9	9	3
Specific Gravity	-	1.62	1.64	1.63	1.63	1.5
Tensile Strength	MPa	11	11	10	10	2 - 5
Elongation	%	440	290	260	380	1000
Service Temp	°C	200	200	200	200	200
Flammability*	UL94	V-2	V-0	V-2	V-2	TBD
MIL-W-22759 Crosslinking proof test	7h @ 300°C	-	-	Pass	-	

* UL94 flammability test conducted on specimen 1mm thick

Flexibility

Due to its low flexural modulus, Fluon+™ AR Series can be thought of as a fluorinated thermoplastic elastomer – it can be processed via thermoplastic processing, yet shows many characteristics of an elastomer.



Thermal Stability

Fluon+™ AR Series retains its mechanical properties better than ETFE polymers and FKM elastomers on prolonged exposure to heat, giving you peace of mind for the lifetime of the part.

Customise Your Solution!

Fluon+™ AR Series is compatible with our Fluon+™ ETFE Colour Concentrates and our Fluon+™ LaserWrite laser-markable concentrates.

Our R&D team is constantly looking at ways to improve our offering in order to push the boundaries of possibility, so to learn more about how our Fluon+™ AR Series can benefit your application, get in touch with our experts.



AGC

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