XYFLUOR® 860

Fluorinated Elastomer for Compression Molding

SEALING SOLUTIONS

Xyfluor® 860, a highly fluorinated elastomer compound, offers excellent chemical compatibility over a wide range of temperatures from -76ºF to 450ºF (-60ºC to 232ºC). Recommended for applications requiring a combination of low-temperature properties and chemical resistance, Xyfluor's capabilities surpass those of standard fluoro-elastomers, PTFE, and graphite. Additionally, Xyfluor reduces overall cost by extending equipment service life.

FEATURES

- Dependable balance of physical properties at temperatures as low as -76ºF (-60ºC) and as high as 450ºF (232ºC)
- Minimal sealing force required for low-sealing pressure applications
- Excellent chemical resistance
- Resistance to hydrocarbon fuels and lubricants
- Good resistance to steam and water
- Less likely to be damaged during installation a compared to PTFE and graphite
- Better conformance to rougher surface finishes as compared to PTFE

APPLICATIONS

Xyfluor 860 works well in demanding applications such as mechanical seals, gaskets and other custom components in a variety of metering pumps, valves and other high-performance equipment.

TYPICAL PROPERTIES*

Physical Properties	ASTM Method	Typical Value
Color		Black
Hardness, Shore A, Points	D2240	70
Mechanical		
Compression Set,** 70 Hours @ 392ºF (200ºC) @ 25% Deflection, %	D395 Method B	30
Elongation, %	D1414	250
Modulus @ 100% Elongation, psi (MPa)	D1414	350 (2.4)
Tensile Strength, psi (MPa)	D1414	1,000 (6.9)
Thermal		
Service Temperature Range, ºF (ºC)		-76ºF to 450ºF (-60ºC to 232ºC)

* *Note: Unless otherwise indicated, all tests are performed on (-214) O-rings.*
** *Note: Data may vary depending on seal cross section.*

Media	Xyfluor	FKM	Silicone	Fluoro-silicone	EPDM
Acetic Acid	1	NR	2/NR	2/NR	2
Acetone	1	NR	3	NR	1
Amyl Alcohol	1	1	NR	1/2	1
Gasoline	1/2	1	NR	1	NR
MEK	1/2	NR	NR	NR	1
Toluene	1	1	NR	2	NR
Steam > 300ºF (149ºC)	1	NR	NR	NR	2
Water > 180ºF (82ºC)	1	2	2	1	1

1 = Swell < 10% after exposure. Suitable.
2 = Swell > 10% & < 20% after exposure. Generally suitable.
3 = Swell > 20% & < 40% after exposure. May be suitable in some situations.
NR = Not recommended

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty that shall be applicable to such products.

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