

KALREZ® PERFLUOROELASTOMER (FFKM)

SIMPLE SEALING IMPROVEMENTS FOR EXTREME APPLICATIONS



- Exceptional replacement for PTFE sealing
- Chemical resistance to over 1800 chemicals, solvents and plasmas
- Long term thermal stability up to 375°C
- Resistance to hardening and embrittlement
- Resistance to mechanical damage
- Improved shape retention over prolonged use
- Low compression set
- Negligible outgassing
- Minimal chemical swelling
- Extended time between repair reducing downtime and costs
- Approved material specifications:
 - ◇ US FDA Class VI
 - ◇ US FDA 3-A
 - ◇ Aerospace AMS 7257
 - ◇ EC 1935/2004
 - ◇ NORDSOK M-710
 - ◇ ISO 23939-2
 - ◇ Japan Pharmacopeia

For more information on complex molding solutions or other similar products, contact us at 813-681-5502 or salesdept@flaseal.com

ABOUT US

For over 30 years, Florida Seal & Rubber, LLC has partnered with sealing industry leaders to provide seals and gaskets for our Industrial, Aerospace, Military, Appliance, Automotive, Semi-Conductor and Medical customers.

At FSR we pride ourselves on exceptional service, great selection, and exceeding our customer's expectations.

CAGE Code: 1X147

DUNS ID: 06-428-8707

NAICS: 423840

SIC Code: 5085



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KALREZ® PERFLUOROELASTOMER (FFKM)

PERFORMANCE PROVEN

Chemical Resistance Properties (room temperature)

	NEOPRENE	ETHYLENE PROPYLENE	BUNA-N NITRILE	FLUORO- SILICONE	FLUORO- ELASTOMER	PERFLUORO- ELASTOMER
ASTM Code	CR	EPM	NBR	FVMQ	FKM (Viton®)	FFKM (Kalrez®)
Hardness durometer (Shore A)	30 to 95	40 to 90	40 to 95	40 to 80	55 to 95	65 to 95
Tensile strength (lb/in ²)	3,000	2,500	2,500	900	2,500	2,000
Wear resistance	**	**	**	NR	**	**
Fireproof hydraulic fluids	*	***	NR	***	*	****
Lubricating oils	**	NR	**	****	****	****
Fuel oils	*	NR	**	****	****	****
Hydraulic oils	**	NR	****	****	****	****
Vegetable oils	**	*	****	****	****	****
Animal Fats	**	*	****	****	****	****
Petrol (normal)	*	NR	***	****	****	****
Petrol (high-octane)	NR	NR	**	****	****	****
Kerosene	*	NR	***	****	****	****
Aromatic hydrocarbons	NR	NR	*	***	****	****
Aliphatic hydrocarbons	**	NR	***	****	****	****
Water (under 80 °C)	*	****	***	****	****	****
Water (above 80 °C)	NR	****	*	***	***	****
Alcohols	****	****	***	****	****	****
Ketones	NR	**	NR	NR	NR	****
Concentrated acids	NR	*	NR	**	***	****
Diluted acids	**	**	*	**	****	****
Alkalis	**	***	*	*	NR	****
Halogenated solvents	NR	NR	*	***	***	***
Max. temp. at continuous service	105 °C	150 °C	121 °C	200 °C	204 °C	327 °C
Compression set	***	**	***	**	***	***
Flame-resistant	YES	NO	NO	NO	YES	YES

4 stars = Excellent, 3 stars = Very Good, 2 stars = Good, 1 star = Reasonable, NR = Not recommended.
Data has been drawn from DuPont and industry sources. Data is presented for use only as a general guide and should not be the basis for design decisions.

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