



Advanced
polymer materials
for optimal
sealing solutions



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Material Characteristics	Butyl	Ethylene Propylene Diene Rubber	Perfluoro Elastomer	Fluorocarbon Rubber	Fluorsilicone	Chloroprene	Nitrile	Silicone	Tetrafluoroethylene & Propylene
Abbreviation	IIR	EPDM	FFKM	FKM/FPM	FVMQ	CR	NBR	VMQ	TFE/P
Market Trade Names	Esso Butyl	Dutral®	Kaltrez®	Viton®	Silastic®	Neoprene	HYCAR®	RHODORSIL™	Aflas®
Hardness Range - Shore A	60-90	60-90	60-90	50-90	60-80	60-90	50-95	45-85	70-90
Max Elongation %	700	600	400	450	500	600	600	800	500
Max Tensile Strength %	2500	3000	2500	3000	1250	3000	3000	1500	2500
Temperature Range	Min Service Temp	-30°C (-22°F)	-20°C (-4°F)	-20°C (-4°F)	-65°C (-85°F)	-20°C (-4°F)	-30°C (-22°F)	-60°C (-76°F)	0°C (32°F)
	Max Service Temp	120°C (248°F)	120°C (248°F)	320°C (594°F)	204°C (400°F)	180°C (356°F)	120°C (-248°F)	23°C (446°F)	204°C (400°F)
Resistance Properties	Abrasion	●	●	●	●	●	●	○	●
	Heat	●	●	●	●	●	●	●	●
	Radiance	●	●	●	●	●	●	●	●
	Resilience	○	●	○	●	●	●	●	●
	Water	●	●	●	●	●	●	●	●
Compliance	Tear Strength	●	●	○	○	○	●	●	○
	FDA	○	●	●	●	○	●	●	○
	3A	○	●	●	●	○	○	●	○
	USP	○	●	●	●	○	○	●	○
	Metal Detectable	○	●	●	●	○	○	●	○
Application Media	Oil & Gas	●	○	●	●	●	●	●	●
	Animal & Vegetable Oils	●	●	●	●	●	●	●	●
	Alcohols	●	●	●	●	●	●	●	●
	Alkalis	●	●	●	●	●	●	●	●
	Acids	●	●	●	●	●	●	●	●

Assessment ● Very Good ● Satisfactory ○ Insufficient