



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
	IIR	EPDM	FFKM	FKM/FPM	FVMQ	CR	NBR	VMQ	TFE/P
Abbreviation									
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	20°C (4°F)	-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)	120°C (248°F)	23°C (446°F)	204°C (400°F)
Abrasion	●	●	●	●	●	●	●	○	●
Heat	●	●	●	●	●	●	●	●	●
Radiance	●	●	●	●	●	●	●	●	●
Resilience	○	●	○	●	●	●	●	●	●
Water	●	●	●	●	●	●	●	●	●
Tear Strength	●	●	○	○	○	●	●	●	○
FDA	○	●	●	●	○	●	●	●	○
3A	○	●	●	●	○	○	○	●	○
USP	○	●	●	●	○	○	○	●	○
Metal Detectable	○	●	●	●	○	○	●	●	○
Oil & Gas	●	○	●	●	●	●	●	●	●
Animal & Vegetable Oils	●	●	●	●	●	●	●	●	●
Alcohols	●	●	●	●	●	●	●	●	●
Alkalis	●	●	●	●	●	●	●	●	●
Acids	●	●	●	●	●	●	○	●	●

Assessment ● Very Good ● Satisfactory ○ Insufficient

NES NES Sheffield is the Integrated Polymer Solutions European HQ
 Northern Engineering (Sheffield) Limited, Haigh Moor Drive, Brooklands Park, Sheffield, UK, S25 2JY
 Tel: +44 (0) 1909 560 203 Fax: +44 (0) 1909 560 184
 Email: info@nes-ips.com Web: www.nes-ips.com