BRITANNIA RUBBER MFG. LTD.

Rubber Compound Comparison Chart

PHYSICAL PROPERTIES	XNBR	EPDM	FKM	HNBR	HYPALON	NATURAL	NEOPRENE	NITRILE	NBR/PVC	SBR	SEPDM	SILICONE
HARDNESS RANGE, SHORE A	40 - 97	20 - 95	60 - 90	50 - 95	40 - 98	30 - 95	5 - 95	20 - 95	15 - 90	35 - 95	40 - 90	40 - 80
ABRASION RESISTANCE	E	G	G	G - E	VG - E	E	VG - E	G - E	VG	E	G	P - G
COMPRESSION SET	F	G - E	G	G - E	P - F	E	P - G	G - E	F	G - E	G	G - E
HYSTERESIS RESISTANCE	P	G	G	F - G	F - G	E	VG	F	F	F - G	G	F - G
OZONE RESISTANCE	P	G - E	E	G - E	E	P	VG - E	P - F	VG	P	VG	E
RESILIENCE	F	G - E	G - E	G	F - G	G - E	VG	G	G	P - E	VG	G - E
TEAR RESISTANCE	E	F - VG	F - VG	F - E	F - G	G - E	VG	G - E	G - E	F - E	F	P - G
MAX. TEMPERATURE	275 °F	350 °F	550 °F	350 °F	300 °F	212 °F	250 °F	250 °F	250 °F	250 °F	375 °F	500 °F
CHEMICAL PROPERTIES	XNBR	EPDM	FKM	HNBR	HYPALON	NATURAL	NEOPRENE	NITRILE	NBR/PVC	SBR	SEPDM	SILICONE
ACIDS, DILUTE	F - G	E	G - E	E	E	G - E	E	G	G	F - G	E	F - G
ALCOHOLS	VG	G - E	F - E	E	E	G - E	E	F - G	E	G	G - E	F - G
ALKALIES, DILUTE	G	E	G	E	G - E	G - E	G	G	G	F - G	E	G
ALIPHATIC HC	E	P	E	G - E	F - G	P	P - G	G - E	G - E	P	P	P - F
AROMATIC HC	G	P	E	P - F	F	P	P - F	F - G	F - G	P	P	P
HALOGENATED HC	P	P	E	P	P - F	P	P	P - F	P - F	P	P	P
ESTERS	P	E	P - E	P - F	P - F	P	P	P - F	F	P	E	G
ETHERS	P	F	P	P - F	P	P	P	P	P	P	F	P
KETONES	F	G - E	P	P	P	F - G	P - F	P	P	P - G	G - E	P
WATER	G	E	E	E	G	E	F - G	G - E	G - E	G - E	VG	E
P- POOR												
F- FAIR												
G- GOOD												
VG- VERY GOOD												
E- EXCELLENT												