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COMPARATIVE GENERAL PROPERTIES OF NATURAL & OTHER SYNTHETIC RUBBERS

PROPERTIES	NATURAL	NEOPRENE®	NITRILE®	EPDM	HYPALON®	SILICONE	VITON®	URETHANE
HARDNESS - SHORE A	20-90	30-95	40-90	40-90	40-95	30-85	60-95	40-100
TENSILE (PSI) MIN	3000	3000	2000	2000	2500	500	2000	4000
SP.GR. (BASE MATERIAL)	0.93	1.23	0.98	0.86	1.12	0.98	1.85	1.06
METAL BONDING	E	E	E	G → E	E	P	G → E	E
FABRIC BONDING	E	E	E	G	G	P	G	E
TEAR RESISTANCE	G	G	E	G	F	P	F	O
ABR. RESISTANCE	E	E	E	E	E	P	G	O
COMPRESSION SET	G	F → G	G	G	F	G	G	F
COLD REBOUND	E	E	G	G	G	G	G	P
ELEC. INSULATION	E	G	G	E	G	E	G	F
PERMEABILTY GAS	F	P	E	F	P	P	P	F
DIL.ACID RESISTANCE	F	E	G	E	E	F	E	F
CONC.ACID RESISTANCE	F	G	F	E	E	F	E	P
SOLVENT RESISTANCE	P	G	G	P	G	F	E	E
AROMATICS	P	G	E	P	F	P	E	G
LUBE OIL RESISTANCE	P	G	G	P	G	G	E	E
OIL & GAS RESISTANCE	P	G	G	P	E	F	E	G
EDIBLE OIL RESISTANCE	F	G	G	F	G	F	E	G
WATER ABSORBPTION	G	G	G	G	G	E	G	E
OZONE RESISTANCE	F	G	G	O	O	G	O	E
SUNLIGHT AGING	P	E	G	O	E	G	E	E
HEAT AGING	F	E	G	E	G	O	O	G

These evaluations are qualitative and comparative Only. They should not be construed as recommendations.

Specific compunding is required to optimise performance. Choice of Rubber should be based on practical consideration.

E = EXCELLENT O = OUTSTANDING F = FAIR
G = GOOD P = POOR ® = REGISTERED TRADE MARK OF DUPONT