

## Compound selection for environmental and performance requirements.

This table is a guide to the selection of a base polymer of a rubber compound. Where the operating conditions are critical, advice and testing of the actual rubber compound must be performed.

This information has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice of any product in violation of any patent or in violation of any law or regulation.

GENERAL CHARACTERISTICS								
	NATURAL	SBR	NEOPRENE	EPDM	NITRILE	BUTYL	SILICONE	VITON
SERVICE TEMPERATURE	-55 to +90	-45 to +90	-55 to +95	-50 to +145	-55 to +110	-45 to +120	-75 to +235	-20 to 200
HARDNESS RANGE	20 to 90	40 to 90	40 to 95	30 to 90	40 to 95	40 to 75	10 to 85	50-95
TENSILE STRENGTH	22 Mpa	17 Mpa	20 Mpa	15 Mpa	15 Mpa	14 Mpa	10 Mpa	14Mpa
COMPRESSION SET	GOOD	GOOD	FAIR TO GOOD	GOOD	GOOD	FAIR	FAIR	V GOOD
ATMOSPHERIC RESISTANCE								
	NATURAL	SBR	NEOPRENE	EPDM	NITRILE	BUTYL	SILICONE	VITON
OZONE RESISTANCE	POOR	POOR	VGOOD	EX'LENT	FAIR	EX'LENT	EX'LENT	EX'LENT
HEAT AGING	FAIR	FAIR TO GOOD	V GOOD	EX'LENT	GOOD	V GOOD	OUT STANDING	EX'LENT
FLAME RESISTANCE	POOR	POOR	GOOD	FAIR	POOR	POOR	FAIR	GOOD
SUNLIGHT AGING	POOR	FAIR	V GOOD	EX'LENT	POOR	V GOOD	EX'LENT	V GOOD
OXIDATION RESISTANCE	GOOD	FAIR	V GOOD	EX'LENT	GOOD	EX'LENT	EX'LENT	V GOOD
OIL RESISTANCE								
	NATURAL	SBR	NEOPRENE	EPDM	NITRILE	BUTYL	SILICONE	VITON

ALIPHATIC OILS	POOR	POOR	GOOD	POOR	EX'LENT	POOR	POOR	EX'LENT
AROMATIC OILS	POOR	POOR	FAIR	POOR	GOOD	POOR	POOR	EX'LENT
KETONES	FAIR TO GOOD	GOOD	POOR TO FAIR	EX'LENT	POOR	GOOD	FAIR	POOR
LUBRICATING OILS	POOR	POOR	GOOD	POOR	V GOOD	POOR	FAIR	EX'LENT
ANIMAL AND VEGETABLE OILS	POOR TO GOOD	POOR TO GOOD	GOOD	V GOOD	V GOOD	V GOOD	V GOOD	EX'LENT

### ACID RESISTANCE

	NATURAL	SBR	NEOPRENE	EPDM	NITRILE	BUTYL	SILICONE	VITON
DILUTE	FAIR TO GOOD	FAIR TO GOOD	EX'LENT	EX'LENT	GOOD	EX'LENT	EX'LENT	EX'LENT
CONCENTRATED	FAIR TO GOOD	FAIR TO GOOD	GOOD	GOOD	GOOD	EX'LENT	FAIR	EX'LENT

### OTHER PROPERTIES

	NATURAL	SBR	NEOPRENE	EPDM	NITRILE	BUTYL	SILICONE	VITON
ELECTRICAL INSULATION	GOOD TO EX'LENT	GOOD TO EX'LENT	POOR	OUT STANDING	POOR	GOOD TO EX'LENT	EX'LENT	POOR
ABRASION RESISTANCE	EX'LENT	GOOD TO EX'LENT	EX'LENT	GOOD TO EX'LENT	GOOD	GOOD	POOR	GOOD