



Novus Sealing Pty Ltd

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PHYSICAL PROPERTIES	NR	NEOPRENE	NITRILE	EPDM	BUTYL	VITON	SILICONE	HYPALON
Durometer Hardness (Shore A)	65	60	60	70	60	72	60	60
Tensile Strength (Mpa)	4	4	10	7	8	9	8	8
Nominal Elongation At Break (%)	200	200	350	300	400	160	300	350
Compression Set	E	G	G	E - G	G - F	E - G	G	G - F
Resilience	E	E	G	G	F	F	P	F
Gas Impermeability	G	G	G	G	E	E	F	E
Electrical Resistivity (Polymer)	E	F	F - P	E	E	G	E	G
Maximum Temperature	70°C	90°C	110°C	120°C	100°C	204°C	200°C	110°C
MECHANICAL PROPERTIES								
Impact Strength	E	G	F	G	G	G	F	G
Abrasion Resistance	E	E	E	G	F	G	F	E
Tear Resistance	E	G	G	F	G	G	F	G
Cut Growth	E	G	G	G	E	G	F	G
Bonding to Rigid Material	E	E - G	E - G	F	G	G	G	E
RESISTANCE RATINGS								
Weather- Sunlight Ageing	F - P	G	P	E	E	E	E	E
Oxidation	G	E	G	E	E	E	E	E
Ozone Cracking	N	E	F	E	E	E	E	E
Radiation	G	G	G	G	G	G	G	G
Water	E	G	E	E	E	E	E	G
Alkali-Dilute/Concentrated	E/G	E/E	G/G	E/E	E/E	E/E	E/E	E/E
Acid-Dilute/Concentrated	E/G	E/E	G/G	E/E	E/E	G/F	G/F	E/E
Aliphatic Hydrocarbons (Petrol, Kerosene)	N	F	E	N	N	E	F	F
Aromatic Hydrocarbons (Benzene, Toluene)	N	G	E - G	N	N	E	N	G
Halogenated Hydrocarbons (Degreaser, Solvents)	N	P	G - F	N	N	E	N	P
Alcohol	E - G	E	G - F	G	G	G	G	E
Animal And Vegetable Oils	G - F	G	G	G	E - G	E	E	G
CODE :	E = EXCELLENT	G = GOOD	F = FAIR	P = POOR	N = NOT RECOMMENDED			

Description	Hardness Shore (A)	Specific Gravity	Tensile Strength (MPa)	Elongation %	Temp °C	General
Butyl Rubber	55/65	1.15	10	450	90	Chlorobutyl rubber excellent chemical resistance. High resistance to temperature & permeation. Fabric finish both sides.
EPDM Rubber	65/75	1.20	11	250	110	Multi purpose EPDM rubber. Excellent ozone weathering and acid resistance
Hypalon Rubber	55/65	1.45	10	500	125	Excellent ozone weathering and acid resistance coupled with good abrasion resistance and heat resistant qualities. Fabric finish one side.
Insertion Natural Rubber	62/72	1.27	6	300	70	Osnaberg fabric is included to improve tear resistance.
Neoprene Rubber	65/75	1.55	6	300	90	General purpose black Neoprene in roll form. Superior to natural rubber in weathering, heat resistance, fire resistance and resistance to petroleum based fluids.
Nitrile Rubber	60/70	1.21	16	520	90	Very good resistance to petroleum based fluids. Good resistance to aromatics.
Redback 45	45	1.05	22	700	60	Premium black, ozone and abrasion resistant lining rubber with a red surface bonding layer for cold bonding that does not require any surface buffing. Suitable for use with standard adhesive systems.
Skirting Natural Rubber	55/65	1.33	5	300	70	Use as conveyor skirting or similar application.
White Hygienic Rubber	45/55	1.38	12.5	670	70	Especially formulated from natural rubber for use in the food industry.

RECOMMENDED RUBBER	BUTYL	EPDM	NATURAL	NEOPRENE	NITRILE	SILICONE	VITON
Specific weight	0.92	0.86	0.93	1.23	1.00	1.14-2.05	1.85
Hardness range of the vulcanized (shore A)	30-90	40-90	30-95	40-95	40-95	40-85	55-95
Tensile strength with no filler	Good	Bad	Excellent	V. Good	Bad	Bad	Good
Tensile strength with reinforcing filler	Good	Good	Excellent	V. Good	V. Good	Good	Good
Tear strength resistance	Good	Good	V. Good	V. Good	Good	V. Bad	Bad
Abrasion resistance	Good	Good	V. Good	Good	V. Good	V. Bad	Bad
Resilience at low temperature	V. Bad	V. Good	Excellent	V. Good	Good	Excellent	Regular
Resilience at high temperature	V. Good	V. Good	Excellent	V. Good	Good	Excellent	Good
Compression set at -40°C	Bad	Regular	Good	Bad	Good	Good	V. Bad
Compression set at 23°C	Regular	Good	V. Good	Good	V. Good	V. Good	Regular
Compression set at 100°C	V. Good	V. Good	V. Bad	Regular	Good	Excellent	Good
Heat resistance	Good	V. Good	Regular	Good	Good	Excellent	Excellent
Cold resistance	V. Good	V. Good	V. Good	Good	Good	Excellent	Excellent
Sunlight resistance	V. Good	Excellent	Regular	V. Good	Good	Excellent	Excellent
Ozone resistance	V. Good	Excellent	Bad	V. Good	Bad	Excellent	Excellent
Oxidation resistance	Excellent	Excellent	Regular	V. Good	Good	Excellent	Excellent
Water resistance	V. Good	V. Good	V. Good	Regular	Good	Excellent	Excellent
Aliphatic hydrocarbons resistance	V. Bad	Bad	V. Bad	Regular	V. Good	Regular	Excellent
Aromatic hydrocarbons resistance	V. Bad	V. Bad	V. Bad	Bad	Good	V. Bad	Excellent
Vegetable and animal oils resistance	V. Good	Good	Bad	Good	V. Good	V. Good	Excellent
Ethers and cetones resistance	Good	Good	Good	V. Bad	V. Bad	Bad	Bad
Gas permeability	Excellent	Regular	Regular	V. Good	V. Good	V. Bad	Good
Flame resistance	V. Bad	V. Bad	V. Bad	Good	V. Bad	Regular	Excellent
Electrical insolation	V. Good	V. Good	Excellent	Regular	Bad	V. Good	Regular
Metals bonding	Good	Good	Excellent	Excellent	Excellent	V. Good	Good
Cloths bondings	Good	Regular	Excellent	Excellent	Good	Excellent	Good

Product	Gauge Range (mm)	Hardness Shore A	S.G	Temperature Range (C)	Tensile Strength (Mpa)	Elongation %	Abrasion Resistance	Ozone/UV Resistance	Oil Resistance	Acid Resistance	Main Application
Natural Rubber	0.8 – 6.0	65(R608A)	1.49	-25 to 70	4.5	350	fair	fair	poor	fair	General purpose
Natural Rubber Insertion	1.5 – 9.0	65(R608A)	1.49	-25 to 70	4.5	350	fair	fair	poor	fair	General purpose
White Faced Insertion	6.0	68(R661)	1.61	-25 to 70	5	350	fair	fair	poor	fair	General purpose
White Hygienic	1.5 – 6.0	50(R448)	1.31	-40 to 80	10	500	good	fair	fair	fair	Food grade
Pure Gum	3.0 – 6.0	35(R399)	0.95	-40 to 80	20	600	excellent	fair	poor	fair	Soft, High Flexibility
T Line 40 Red	3.0 – 25.0	40(R394)	1.05	-40 to 70	18.6	600	excellent	poor	fair	fair	Abrasion
T Line 35 SY Yellow	3.0 – 6.0	35(R396)	0.97	-40 to 80	20	600	excellent	fair	poor	fair	Soft, High Abrasion
T Line 60 Black	6.0 – 25.0	62(R650)	1.12	-50 to 85	18	400	excellent	good	good	good	Abrasion
Neoprene Rubber	0.8 – 25.0	70(C801)	1.42	-20 to 100	6.5	250	fair	good	good	fair	Heat/Oil/Ozone
Neoprene Insertion	1.5 – 6.0	70(C801)	1.42	-20 to 100	6.5	250	fair	good	fair	fair	Heat/Oil/Ozone
Nitrile Rubber	1.5 – 6.0	60(B569)	1.28	-30 to 110	10	350	good	fair	excellent	good	Petrol and Oil
White Nitrile	1.5 – 6.0	60(B571)	1.4	-35 to 110	8	400	good	fair	excellent	good	Food grade Oil
Nitrile Insertion	1.5 – 3.0	60(B569)	1.28	-30 to 110	10	350	good	fair	excellent	good	Petrol and Oil
Portable Water EPDM	1.5 – 6.0	70(E645)	1.18	-40 to 120	11	250	fair	excellent	poor	good	Potable water
EPDM Rubber	1.5 – 6.0	70(E701)	1.31	-40 to 120	7	300	fair	excellent	poor	good	Heat/Ozone
EPDM Insertion	1.5 – 3.0	70(E701)	1.31	-40 to 120	7	300	fair	excellent	poor	good	Heat/Ozone
EPDM Dust Cloth	2.0	50(E550)	1.17	-40 to 115	9	450	good	excellent	poor	good	Screen Dust Cloth
Butyl Rubber	1.5 – 6.0	60(T600A)	1.27	-40 to 100	8	400	fair	excellent	poor	Very good	Heat/Chemical
Hypalon Rubber	1.5 – 6.0	60(H611)	1.32	-35 to 110	8	350	fair	excellent	good	excellent	Heat/Acid/Chemical
Viton A Rubber	1.5 – 6.0	72(V737A)	1.98	-18 to 204	9	160	fair	excellent	excellent	excellent	Solvent/Heat/Chemical
Viton B Rubber	1.5 – 3.0	70(V725A)	1.8	-18 to 204	8	170	fair	excellent	excellent	excellent	Solvent/Heat/Chemical
Silicone Rubber	1.5 – 6.0	60(S662A)	1.2	-70 to 200	8	300	fair	excellent	good	good	High or Low temp.