



ELASTOMER LINING WORKS

PLOT NO. W-22/23, M.I.D.C., CHEMICAL ZONE, AMBERNATH (W.) - 421501,

Tel. : 91-(0251) 2610462 / 2610723

E-mail : elastomer1@gmail.com • export@elastomerlining.com

RUBBER SHEETING

Technical Data Sheet

ELPO - INSERTION

● Basis

Natural Rubber Blend / 1 Ply Cloth reinforcing

● General Properties and Applications :

ELPO Insertion Rubber is a general purpose natural rubber with fabric reinforcing. It is not recommended or use with oils or hydrocarbons, Insertion is used extensively as a gasket material for low pressure water applications.

● Dimensions of Standard Sheets :

Available in rolls 1.0/1.2 meters wide and 10/20 meters long.

Thickness range 1.5mm, 3mm, 4.5mm and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	70	° Celcius
Pressure	1000	kPa
Tensile Strength	2.5	Mpa
Compression Set (22h@ 70°C)	40	%
Hardness	65± 5	“A”
Elongation at break	200	%
Specific Gravity	1.5	gms/cm ³
Tear Strength	13	Kg/cm
Ozone Resistance	Poor	

Due to the wide variety of possible installation and operating conditions the behaviour of the material cannot be guaranteed. While the utmost care has been used in compiling this brochure it must only be used as general guide. This specification is subject to change without notice. If in doubt, our staff will be pleased to assist you in finding the optimum sheeting solutions.



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RUBBER SHEETING

Technical Data Sheet

ELPO - 65

● Basis

Natural Rubber Blend

● General Properties and Applications :

ELPO 65 is a general purpose natural rubber. It is not recommended for use with oils or hydrocarbons. ELPO 65 is used for scraper blades, skirting rubber, curtains, etc. It is used extensively as a gasket material for low pressure water applications.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.

Thickness range 1.5mm, 3mm, 4.5mm, 6mm, 10mm, 12.5mm, 15mm, 20mm, and 25mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	70	° Celcius
Pressure	1000	kPa
Tensile Strength	3.5	Mpa
Compression Set (22h@ 70°C)	43	%
Hardness	65+-5	“A”
Elongation at break	200	%
Specific Gravity	1.5	gms/cm ³
Tear Strength	12	Kg/cm
Ozone Resistance	Moderate	

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RUBBER SHEETING

Technical Data Sheet

ELPO 45

● Basis

Natural Rubber Blend

● General Properties and Applications :

ELPO 45 has very good abrasion and rabound properties, It is not recommended for use in areas with hydrocarbons and oils. It does not have a high operating temperature but has good mechanical properties and is a very resilient material.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.

Thickness range 1.5mm, 3mm, 4.5mm, 6mm, 10mm, 12.5mm, 15mm, 20mm, and 25mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	70	° Celcius
Pressure	1000	kPa
Tensile Strength	10	Mpa
Compression Set	40	%
Hardness	45± 5	“A”
Elongation at break	500	%
Specific Gravity	1.2	gms/cm ³
Tear Strength	25	Kg/cm
Ozone Resistance	Poor	

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RUBBER SHEETING

Technical Data Sheet

GUM RUBBER

● Basis

Natural Rubber / No Filler Content

● General Properties and Applications :

Gum Rubber is used in areas where an abrasion resistant material is required. It has excellent shock absorbing properties and can be used for shot blasting applications where high abrasion resistance is needed.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.

Thickness range 1.5mm, 3mm, 4.5mm, 6mm and 10mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	70	° Celcius
Pressure	900	kPa
Tensile Strength	9.8	Mpa
Compression Set	20	%
Hardness	45± 5	“A”
Elongation at break	500	%
Specific Gravity	1.2	gms/cm ³
Tear Strength	35	Kg/cm
Ozone Resistance	Poor	

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RUBBER SHEETING

Technical Data Sheet

RED NEOPRENE

● Basis

Chloroprene

● General Properties and Applications :

Red Neoprene is general purpose neoprene sheeting. A good temperature, Oil and a wide range of chemical resistance for use as flange gasket, scraper blades and skirt rubber, strip, curtains, mats, sleeves and linings.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.

Thickness range 1mm, 1.5mm, 3mm, 4.5mm, 6mm, 10mm, 12.5mm, 15mm, 20mm, and 25mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	100	°Celcius
Pressure	1000	kPa
Tensile Strength	5	Mpa
Compression Set	35	%
Hardness	70± 5	“A”
Elongation at break	300	%
Specific Gravity	1.45	gms/cm ³
Tear Strength	17	Kg/cm
Ozone Resistance	Good	

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RUBBER SHEETING

Technical Data Sheet

BLACK NEOPRENE RUBBER

● Basis

Chloroprene

● General Properties and Applications :

Black Neoprene is a general purpose neoprene sheeting. A good temperature, Oil and a wide range of chemical resistance for use as flange gasket, scraper blades and skirt rubber, strip, curtains, mats, sleeves anddd linings.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.

Thickness range 1mm, 1.5mm, 3mm, 4.5mm, 6mm, 10mm, 12.5mm, 15mm, 20mm, and 25mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	120	°Celcius
Pressure	1000	kPa
Tensile Strength	5	Mpa
Compression Set	35	%
Hardness	70± 5	“A”
Elongation at break	300	%
Specific Gravity	1.45	gms/cm ³
Tear Strength	17	Kg/cm
Ozone Resistance	Good	

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RUBBER SHEETING

Technical Data Sheet

NITRILE

● Basis

Acrylonitrile Butadiene

● General Properties and Applications :

Nitrile has a good general resistance to oil along with good mechanical properties. It has a satisfactory resistance to general hydrocarbons. Due to its polar nature, it is not recommended for use with polar liquids, i.e. ketones, ethers and amines.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.
Thickness range 1mm, 1.5mm, 3mm, 4.5mm and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	90	° Celcius
Pressure	1000	kPa
Tensile Strength	5	Mpa
Compression Set	40	%
Hardness	70± 5	“A”
Elongation at break	300	%
Specific Gravity	1.45	gms/cm ³
Tear Strength	20	Kg/cm
Ozone Resistance	Moderate	

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RUBBER SHEETING

Technical Data Sheet

HI-SPEC NITRILE

● Basis

Acrylonitrile Butadiene

● General Properties and Applications :

Hi-Spec Nitrile has a good resistance to oil and fuels along with good mechanical properties. It has a good resistance to general hydrocarbons. Due to its polar nature, It is not recommended for use with polar liquids, i.e. ketones, ethers and amines.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.
Thickness range 1.5mm, 3mm, 4.5mm and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	100	° Celcius
Pressure	1000	kPa
Tensile Strength	10	Mpa
Compression Set	25	%
Hardness	65± 5	“A”
Elongation at break	350	%
Specific Gravity	1.35	gms/cm ³
Tear Strength	30	Kg/cm
Ozone Resistance	Moderate	

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ELPO - BUTYL

● Basis

Isobutylene

● General Properties and Applications :

ELPO Butyl has a very low air and gas permeability. It has a good resistance to ozone, oxidation and sunlight and has a good temperature range. It is a good shock absorbing/damping material due to its low resilience but offers moderate abrasion properties, It shows good resistance to acids and alkalines but is not recommended with oils and hydrocarbons.

● Dimensions of Standard Sheets :

Available in rolls upto 1.2 meters wide and 10 meters long.
Thickness range 1mm, 1.5mm, 3mm, 4.5mm and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	130	°Celcius
Pressure	1000	kPa
Tensile Strength	9	Mpa
Compression Set	25	%
Hardness	60± 5	"A"
Elongation at break	500	%
Specific Gravity	1.2	gms/cm ³
Tear Strength	40	Kg/cm
Ozone Resistance	Good	

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ELPO - HYPALON

● Basis

Chloro-sulphenated polyethylene

● General Properties and Applications :

ELPO Hypalon has good resistance to heat, oils and weather. Hypalon Rubber can be utilized in applications where good resistance to oxygen and ozone are required and properly compounded product shows good resistance to weathering

● Dimensions of Standard Sheets :

Available in rolls upto 1.2 meters wide and 10 meters long.
Thickness range 1.5mm, 3mm and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	-35 to 110	°Celcius
Pressure	1000	kPa
Tensile Strength	7	Mpa
Compression Set	40	%
Hardness	70± 5	"A"
Elongation at break	400	%
Specific Gravity	1.4	gms/cm ³
Tear Strength	17	Kg/cm
Ozone Resistance	Good	

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EPDM RUBBER

● Basis

Ethylene Propylene Diene Monomer

● General Properties and Applications :

EPDM can be vulcanized by the conventional method of using sulphur. It has an excellent operating temperature and is highly recommended for outdoor uses. As it is extremely resistant to oxidation, UV and ozone, EPDM does not have good oil resistance.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.
Thickness range 1.5mm, 3mm, 4.5mm, and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	120	°Celsius
Pressure	1000	kPa
Tensile Strength	6	Mpa
Compression Set	40	%
Hardness	65± 5	"A"
Elongation at break	250	%
Specific Gravity	1.35	gms/cm ³
Tear Strength	20	Kg/cm
Ozone Resistance	Good	

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SILICON RUBBER

● Basis

Silicon

● General Properties and Applications :

SILICON is physiologically inert, thus making it preferred choice for the medical, pharmaceutical and food processing industries. Silicon retains its properties at both high and low temperatures. It has a reasonable resistance to a wide range of chemicals, but acids, alkalis, esters and kerosene should be avoided.

● Dimensions of Standard Sheets :

Available in rolls 1.2 meters wide and 10 meters long.
Thickness range 1mm, 1.5mm, 3mm, 4.5mm and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	180	°Celsius
Pressure	1000	kPa
Tensile Strength	8	Mpa
Compression Set	40	%
Hardness	60± 5	"A"
Elongation at break	350	%
Specific Gravity	1.16	gms/cm ³
Tear Strength	20	Kg/cm
Ozone Resistance	Good	

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DIAPHRAGM RUBBER

● Basis

Nitrile and Nylon Fabric Insert

● General Properties and Applications :

Diaphragm Rubber is manufactured from Nitrile and Nylon fabric to provide greater tensile strength. The material is recommended for control valves, regulators and pumps where pulsating pressures may occur.

● Dimensions of Standard Sheets :

Standard colour is Black

Thickness range 0.4mm to 3mm.

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	100	°Celcius
Pressure	1000	kPa
Tensile Strength	11	Mpa
Compression Set 50% 22hr		%
Hardness	70± 5	"A"
Elongation at break		%
Specific Gravity	1.5	gms/cm ³
Tear Strength	25	Kg/cm
Ozone Resistance	Moderate	

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VITON

● Basis

Hexafluoro propylene vinylidene fluoride

● General Properties and Applications :

Fluoro Elastomer rubber or Viton has a high resistance to heat and also possesses good flame resistant properties. Viton has excellent resistance to oxygen, ozone and natural weathering. It has good resistance to hydrocarbons, aliphatic, aromatic and chlorinated chemicals as well as to acids and alkalis. It has poor performance against ether and ketone bases.

● Dimensions of Standard Sheets :

Available in rolls upto 1.2 meters wide and 10 meters long.

Thickness range 1mm, 1.5mm, 3mm, 4.5mm, 6mm, and 10mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	250	°Celcius
Pressure	1000	kPa
Tensile Strength	5	Mpa
Compression Set	62	%
Hardness	75± 5	"A"
Elongation at break	200	%
Specific Gravity	1.95	gms/cm ³
Tear Strength	30	Kg/cm
Ozone Resistance	Excellent	

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RUBBER SHEETING

Technical Data Sheet

ELPO - PROLINER

● Basis

Natural Rubber

● General Properties and Applications :

ELPO Proliner is a superior quality abrasion resistant soft red natural rubber, Main uses are for linings of tanks, cyclones, launders and pipes. Other uses include scraper blades, skirt rubbers,strips, cutains, mats and sleeves.

● Dimensions of Standard Sheets :

Available in rolls upto 1.2 meters wide and 10 meters long.

Thickness range 2mm, 3mm, 6mm, 8mm, 10mm, 12mm, 15mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	70	°Celcius
Pressure	1000	kPa
Tensile Strength	24	Mpa
Compression Set	15	%
Hardness	38± 5	“A”
Elongation at break	810	%
Specific Gravity	0.98	gms/cm ³
Tear Strength	40	Kg/cm
Modulus @300%	2.8	Mpa

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FOOD GRADE RUBBER

● General Properties and Applications :

Food Grade rubber is a white food quality natural rubber, Made to FDA specification and non-toxic. Mainly for use in the food processing industry or where a white rubber is required.

● Dimensions of Standard Sheets :

Available in rolls upto 1.2 metres wide and 10 meter long.

Thickness range 1mm, 1.5mm, 3mm, and 6mm

● Technical Data :

Typical Properties	Typical Properties	Unit
Temperature	80	°Celcius
Pressure	1000	kPa
Tensile Strength	11.5	MN/m2
Compression Set	22.8	%
Hardness	55± 5	“A”
Elongation at break	650	%
Specific Gravity	1.3	gms/cm ³
Aged Tensile Strength	102.3	%
Aged Elongation at break	97.7	%

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