

SEMPERIT  

Elastomer sheeting and wear resistant sheeting



GENERAL INFORMATION

Founded in 1824, Semperit AG Holding is one of the world's leading companies active in developing, manufacturing and marketing high quality polymer products. Our years of production expertise in the use of polymer products, dedication to customer service, together with our commitment to maintaining the very high quality standards in every area, strengthens our position as one of the global leading companies.

As a respected manufacturer of elastomer sheets, we are in the enviable position to offer an attractive combination of modern technology and years of experience. Besides our established range of high standard and superior quality products, we have products meeting international standards that complete our excellent product range.

For detailed information about our products, please contact our nearest sales office or visit our website (www.semperitgroup.com).

STANDARD DIMENSIONS

Article	Thickness mm	Width m	Length m	Short length m
Rota-cured Sheetings	0.3<1.0	1.35	20	5-19.9
	1.0-2.0		20	
	2.5-6.0	1.4	10	5-9.9
	8.0-10.0		5 or 10	
Press-cured Sheetings	12.0-50.0		5	4-4.9

Different dimensions and partitioned sheets on request.

MINIMUM ORDER QUANTITIES FOR SPECIAL MANUFACTURES IN STANDARD COMPOUNDS

Article	Sheeting type	Thickness mm	Minimum Order Quantity m ²
Rota-cured Sheetings	Sheetings	0.8<1.0	420
		1.0-6.0	210
		8.0-10.0	70
	Industrial and Insulating Matting	from 3.0	420
Press-cured Sheetings	Sheetings	8.0-12.0	70
		15.0-25.0	35
		30.0-50.0	14

A608, P512, E563, E630 and BV3 are special compounds which require due to processing methods a minimum order quantity of 3 tonnes. In addition, the above stated minimum order quantities per ordered article have to be adhered to.

We reserve the right to supply, for special manufactured sheetings, as follows:

- the delivered quantity can deviate between +20% and -10% of the ordered quantity per article (m²).
- extra or shorter lengths up to a maximum of 15%, or the percentage to be stated by us on our offer, of the total number of rolls can be contained in one delivery without any price reduction per ordered article.

STANDARD THICKNESS TOLERANCES

Nominal Thickness mm	Tolerances mm		
	Elastomer Sheetings	Design and Insulating Mattings	Wear resistant Sheetings
0.5	±0.2		
1.0	±0.2		
1.5	±0.2		
2.0	±0.3		
2.5	±0.3		
3.0	±0.3	±0.4	
4.0	±0.3	±0.4	
5.0	±0.4	±0.5	
6.0	±0.4	±0.5	±0.5
8.0	±0.7	±0.8	±0.8
10.0	±0.7	±0.8	±0.8
12.0	±0.8		±1.0
15.0	±0.8		±1.0
20.0	±1.0		±1.4
25.0	±1.25		±1.75
30.0	±1.5		±2.1
35.0	±1.75		±2.45
40.0	±2.0		±2.8
45.0	±2.25		±3.15
50.0	±2.5		±3.5
up to 6 mm	DIN 7715 P2	DIN 7715 P3	DIN 7715 P3
over 6 mm	ISO 3302 ST2	ISO 3302 ST3	ISO 3302 ST3

Width tolerance: ±2%

Length tolerance: ±2%

The following special thickness tolerances apply to all light-coloured qualities (e.g. Food Sheeting):

0.5 mm-5.0 mm DIN 7715 P2

6.0 mm-10 mm ISO 3302 ST2

The tolerances stated relate to the data shown on the labels (thickness, length, width).

INSERTION MATERIALS

Notation	Inlay	Overlay	Material	Strength EN ISO 13934 N/50mm
GF	×		Glass Fibre	300
PES			Polyester	320
EP125		×	Conveyor Belt Fabric	

PRESENTATION ROTA-CURED SHEETING

Classification	Colour	Rolled with ¹⁾	Outer packaging
Commercial	Black	Feather-white dusting	Stretch foil
	Light		Opaque foil
High-grade	Black Thickness <1mm	Feather-white dusting	Stretch foil
	Black Thickness ≥1mm	Separating foil	
	Light	Feather-white dusting	Opaque foil
Specification	Black Thickness <1mm	Feather-white dusting	Stretch foil
	Black Thickness ≥1mm	Separating foil	
	Light	Feather-white dusting	Opaque foil
Industrial and insulating matting	Black	No dusting, no separating foil	Stretch foil
	Light		Opaque foil
Wear resistant sheeting	Black	Separating foil	Opaque foil
	Red		
All sheetings are marked with labels.			

1) Unless stated otherwise in the respective data sheet

Rota-cured sheeting will be rolled on cardboard tubes (71 mm inner diameter, 1400 mm long) up to and including a thickness of 3 mm.

Due to the manufacturing process, sheetings below 2 mm thickness do not have their edges cut, therefore slight excess material at the edges is standard for these sheetings.

PRESENTATION PRESS-CURED SHEETING

Classification	Rolled with ¹⁾	Outer packaging
Commercial	No dusting, no separating foil	Stretch foil
High-grade		
Specification		
Wear resistant sheeting		Opaque foil
All sheetings are marked with labels.		

1) Unless stated otherwise in the respective data sheet

A form-separating agent containing silicon is used during press-cured production. Slight edge extrusions due to processing method are standard. Deliveries are in rolled form, flat deliveries upon request. Deviations of presentation and packaging as described above require to be specially manufactured, if technically possible, and therefore the minimum order quantities have to be adhered to.

CERTIFICATION

Our quality management system certified as per ISO 9001:2015 ensures equally high product quality at all stages of the production process.

DELIVERIES

We reserve the right to supply, for deliveries ex stock, as follows:

For orders up to 70m² per article

- due to the lengths on stock the delivered quantity can deviate between +20% and -10% of the ordered quantities (m²);
- a maximum of two (2) non-standard length rolls per article can be contained in one delivery without any price reduction per ordered article.

For orders over 70m² per article

- due to the lengths on stock the delivered quantity can deviate between +10% and -5% of the ordered quantities (m²);
- extra or shorter lengths, up to a maximum of 10% of the total number of rolls, can be contained in one delivery without any price reduction per ordered article.

PALLET QUANTITIES

Thickness mm	Rolls per pallet	m ² per pallet
1.0	15	420
1.5	10	280
2.0	14	392
3.0	20	280
4.0	14	196
5.0	12	168
6.0	10	140
8.0 (10 m length)	6	84
8.0 (5 m length)	10	70
10.0 (10 m length)	5	70
10.0 (5 m length)	10	70
12.0	6	42
15.0	6	42
20.0	3	21
25.0	2	14
30.0	2	14
40.0	1	7
50.0	1	7

In order to process your order more efficiently, please keep these quantities in mind when ordering.

TRANSPORT PACKAGING

Deliveries will usually be sent resting vertically on pallets. We also reserve the right to deliver the rolls horizontally.

STORAGE RECOMMENDATION

Storage conditions for rubber products are defined in ISO 2230.

The main requirements are: cool (10–20°C), dry, dark (no sun light or fluorescent lighting), ozone-free (no electro-motors, generators etc. nearby), no contact with hydrocarbons or solvents.

TECHNICAL RUBBER SHEETING

Base polymer	Quality	Colour/Classification	Hardness ISO 48-4		Density g/cm ³	Tensile strength ISO 37 N/mm ²	Elongation at break ISO 37 %	Working temperature range (medium air)			Compression set ISO 815			Ageing ISO 188		
			ShoreA	g/cm ³				Min (stat) °C	Max. °C	Short-term °C	h	°C	%	Conditions h/°C	Hardness ShoreA	Strength %
NR-SBR	A9506	Black Commercial	70 ±7	~1.46	4	200	-10 (-30)	70	90	24	70	50				
	A590	Black High-grade	60 ±5	~1.15	15	400	-35	70	90	22	70	30	70/70	+5	-10	
CR	N572	Black High-grade	70 ±5	~1.50	7	300	-40	90	110	22	70	35	70/70	+5	-5	
CR-SBR	N9581	Black Commercial	65 ±5	~1.40	6	200	-30	70	90	22	70	40	70/70	+7	-15	
	N605	Black Commercial	50 ±5	~1.25	6	350	-30	70	100	22	70	35	70/70	+7	-10	
PARA (NR-SBR)	A560n	Natural High-grade	40 ±5	~1.06	18	600	-50	70	80	22	70	25	70/70	+3	-10	
	A160g	Grey High-grade	40 ±5	~1.08	15	550	-50	70	80	22	70	35	70/70	+3	-15	
	A654r	Red High-grade	40 ±5	~1.06	16	550	-50	70	80	22	70	25	70/70	+5	-10	
	A654s	Black High-grade	40 ±5	~1.06	16	550	-40(-50)	70	80	22	70	25	70/70	+5	-10	
NBR-SBR	P9540	Black High-grade	65 ±5	~1.45	7	250	-10	70	90	22	70	40	70/70	+7	-10	
	P9541	Black High-grade	65 ±5	~1.45	7	220	-10	70	90	22	70	40	70/70	+7	-10	
	P9639	Black Commercial	50 ±5	~1.25	5	350	-10	70	90	22	70	25	70/70	+7	-15	
	P9548	Black Commercial	80 ±5	~1.45	5	200	-20	70	90	22	70	30	70/70	+5	-10	
NBR	P534	Black High-grade	60 ±5	~1.19	11	400	-20	80	100	22	100	35	70/100	+5	-10	
	P559	Black High-grade	70 ±5	~1.49	10	330	-20	80	90	22	100	40	70/100	+10	-10	
	P518	Black Specification	80 ±5	~1.35	13	180	-15	80	110	168	100	40	168/70	±6	±15	
	P569	Black High-grade	70 ±5	~1.32	12	250	-30	120	140	22	100	20	72/100 72/120	5 10	5 5	
NBR-PVC	P512	Black Specification	60 ±5	~1.19	12	350	-20	90	110	22	70	30	70/70	+5	-10	
EPDM	E9615	Black High-grade	70 ±5	~1.18	11	250	-40	120	140	22	100	25	70/125	+5	-10	
	E9567	Black High-grade	70 ±5	~1.30	8	300	-40	100	120	22	70	30	70/100	+10	-10	
	E9566	Black High-grade	70 ±5	~1.30	7	250	-40	100	120	22	70	35	70/100	+10	-10	
	E9614	Black High-grade	70 ±5	~1.22	9	200	-40	120	140	22	100	25	70/125	+5	-10	
	E4580	Black High-grade	50 ±5	~1.05	8	500	-50	100	120	22	70	25	70/100	+5	-10	
	E563	Black High-grade	75 ±5	~1.21	10	250	-50	100	120				70/100	+10	-10	
	E9575	Black High-grade	80 ±5	~1.30	5	200	-40	100	120	22	70	40	70/100	+5	-10	
	Green Evo Star	Black High-grade	65 ±5	~1.23	9	450	-30	100	120	24	70	35	70/100	+10	15	

- 1) For special compounds please consider minimum order quantity
- 2) Antistatic – contact resistance as per DIN EN 60243-1 < 1 Mega Ohm*cm
- 3) As per ISO 4589-2:1999, O2-index > 30 %

Note: More qualities with inlay are also available as custom-made products.

Elongation %	Swelling ISO 1817				Ozone resistance ISO 1431-1				Remarks
	Medium	Conditions h/°C	Hardness ShoreA	Volume %	Duration h	Ozone pphm	Temp °C	Crack level	
									Standard quality
-15									Moderately weather resistant, antistatic ² , excellent mechanical properties
-15	ASTM Oil 1	70/100	-3	+7					Self-extinguishing ² Resistant to most aliphatic oils
-25									Moderate weather resistance
-20	ASTM Oil 1	70/100	-5	+10					Resistant to weather and ozone Moderate oil resistance
-15									Highly elastic Excellent mechanical properties
-20									Highly elastic Excellent mechanical properties
-15									Highly elastic Excellent mechanical properties
-15									Highly elastic Excellent mechanical properties
-20	IRM 903 Fuel B (ISO1817)	70/100 70/23	-5 -5	+10 +20					Good resistance to oil and benzene
-20	IRM 903	72/100	-5	+10					Phtalat free Nitrile quality PAH cat.3 in full content
-20	ASTM Oil 1	70/100	±10	-5					Resistant to oil (no aromatic oils)
-30	IRM 903	70/100	-15	+30					Resistant to oil and moderate benzene resistance
-25	IRM 903	70/100	-5	+10					Good resistance to oil and benzene up to 30% aromatic content
-35	IRM 903 Fuel B (ISO1817)	70/100 70/30	-5 -5	+10 +20					Good resistance to oil and benzene, high nitrile quality with good mechanical properties
±30	ASTM Oil 2 Fuel 2	70/100 168/22	+5 -20	-5 +30					Gas sealing sheet with DIN & DVGW certifications Good resistance to oil
10	IRM901	70/100	5	5					High temperature resistance
15	IRM903 Fuel B	70/100 70/30	10	10 25					Good resistance to oil and fuel
-10	IRM 903 US 3000	70/120 70/120	-5	+20 +4	48	50	30	1	Good resistance to oil, especially transformer oil Moderate ozone resistant. Special compound ¹⁾
-20					48	200	40	0	peroxide crosslinked non blooming, PMMA-suitable
-25					48	200	40	0	Good ozone and weather resistance Antistatic
-25					48	200	40	0	Corresponds to various standards of automotive industry Excellent resistance to weather and ozone
-20					48	200	40	0	Corresponds to various standards of automotive industry. Excellent resistance to weather and ozone. High working temperature range
-30					48	200	40	0	Corresponds to various standards of automotive industry Excellent resistance to weather and ozone
-40					48	200	40	0	Especially suitable for thin sheetings down to minimum of 0.3mm Special compound ¹⁾
-30					48	200	40	0	Excellent resistance to weather and ozone
30					48	200	40	0	Bio-based polyme, nitrosamine-free crosslinked 35% CO2-reduced developed

DRINKING WATER & FOOD CONTACT MATERIAL

Base polymer	Quality	Colour/Classification	Hardness ISO 48-4	Density	Tensile strength ISO 37	Elongation at break ISO 37	Working temperature range (medium air)			Remarks
			ShoreA	g/cm ³	N/mm ²	%	Min (stat) °C	Max. °C	Short-term °C	

FOOD QUALITIES

NR-SBR	A618	Off-White Specification	45 ±5	~1.28	12	550	-45	70	90	*BFR XXI category 1. For commodities which as a result of their intended use come into contact with foodstuff for periods of more than 24h *FDA 21 Food and Drugs Part 177.2600. Rubber articles intended for repeated use in contact with aqueous foods
	A621	Off-White Specification	65 ±5	~1.43	8	380	-45	70	90	*BFR XXI category 4. For commodities which as a result of their intended use come into contact with foodstuff for just a very short period of time or with a very small part of its surface; test for alcoholic (up to 10%) and acidic food. *FDA 21 Food and Drugs Part 177.2600. Rubber articles intended for repeated use in contact with aqueous foods
NBR-NR	P627	Off-White Specification	60 ±5	~1.32	11	500	-30	80	100	*BFR XXI category 2. This category contains commodities (articles and materials) that, when used as intended, come into contact with foodstuff for no more than 24 hours. *FDA 21 Food and Drugs Part 177.2600. Rubber articles intended for repeated use in contact with aqueous and fatty foods

DRINKING WATER QUALITIES

EPDM	E628	Black Specification	70 ±5	~1.12	11	250	-50	120	140	*certified according to Elastomer Guideline (ELL) for cold and warm water, for gaskets and fittings *certified according to ACS *certified according to decree of CZ health ministry 409/2005
	E630	Black Specification	70 ±5	~1.29	11	300	-40	100	120	*certified according to WRAS for cold water *certified according to ACS for cold water
	E2514	Black High-grade	67 ±5	~1.09	9	200	-30	90	110	*certified according to Elastomer Guideline (ELL+W270) for cold and warm water, for gaskets *certified according to WRAS *certified according to ACS *complies with DIN EN 681-1
	E0265	Black High-grade	80 ±5	~1.30	10	250	-30	90	110	*certified according to WRAS *certified according to ACS *certified according to AS/NCS 4020

WEAR RESISTANCE

Base polymer	Quality	Colour/Classification	Hardness ISO 48-4	Density	Tensile strength ISO 37	Elongation at break ISO 37	Working temperature range (medium air)			Abrasion resistance ISO 4649		Remarks
			ShoreA	g/cm ³	N/mm ²		%	Min (stat) °C	Max. °C	Short-term °C	mm ³	

WEAR RESISTANCE

NR-SBR	Black Star	Black High-grade	60 ±5	~1.15	15	400	-35	70	90	120	10	For rough, sharp-edged materials
	Black Star with VKS	Black High-grade	60 ±5	~1.15	15	400	-35	70	90	120	10	For rough, sharp-edged materials With bonding layer ²⁾
	Red Star	Red High-grade	40 ±5	~1.06	16	600	-50	70	80	110	5	Highly elastic, for fine granular materials
	Red Star with VKS	Red High-grade	40 ±5	~1.06	16	600	-50	70	80	110	5	Highly elastic, for fine granular materials With bonding layer ²⁾

SKIRTBOARD RUBBER

NR-SBR	BV3	Black High-grade	50 ±5	~1.26	6.5	350	-25	70	90	130	5	For applications with no contact with the belt. Special compound ¹⁾
--------	-----	------------------	-------	-------	-----	-----	-----	----	----	-----	---	--

PULLEY LAGGING

NR-SBR	TB40	Red High-grade	40 ±5	~1.06	16	600	-50	70	80	110	5	For drive pulleys with diameters up to 300 mm (also in reverse operation) and return pulleys with low belt tension. Square design (20 mm × 20 mm). With bonding layer ²⁾
	TB60	Black High-grade	60 ±5	~1.15	15	400	-35	70	90	120	10	For drive pulleys with diameters over 300 mm (also in reverse operation) and return pulleys with high belt tension. Square design (20 mm × 20 mm). With bonding layer ²⁾

1) For special compounds please consider minimum order quantity

2) The bonding layer is a special rubber mixture whose surface is activated by the adhesive applied to the sheeting. This permits gluing without additional grinding

FLAME RESISTANT MATERIAL

Base polymer	Quality	Colour/Classification	Hardness ISO 48-4	Density	Tensile strength ISO 37	Elongation at break ISO 37	Working temperature range (medium air)			Remarks
			ShoreA	g/cm ³	N/mm ²	%	Min (stat) °C	Max. °C	Short-term °C	
EPDM	E2441	Black High-grade	65 ±5	~1.12	7	300	-35	100	120	classification from 2 to 10 mm thickness according DIN EN 45545 part 2: 2016-02 complies with ECE-R 118 Annex 6 (95/28/EC Annex IV) & FMVSS 302
	E541	Black High-grade	70 ±5	~1.37	7	350	-30	100	120	classification from 2 to 10 mm thickness according DIN EN 45545 part 2: 2016-02 complies with ECE-R 118 Annex 6 (95/28/EC Annex IV) & FMVSS 302

INSULATION AND INDUSTRIAL MATTINGS

Base polymer	Quality	Colour/Classification	Hardness ISO 48-4	Density	Tensile strength ISO 37	Elongation at break ISO 37	Working temperature range (medium air)			Remarks
			ShoreA	g/cm ³	N/mm ²	%	Min (stat) °C	Max. °C	Short-term °C	

INSULATING MATTING

NR-SBR	A601g RW2	Blue-grey Specification	70 ±5	~1.60	5	250	-20	70	90	Mat with fine-grooved design Tested acc. to DIN EN 60243-1 Dielectric strength 20kV or 50kV ¹⁾
	A601g D70	Blue-grey Specification	70 ±5	~1.60	5	250	-20	70	90	Mat with checker design Tested acc. to DIN EN 60243-1 Dielectric strength 20kV oder 50kV ¹⁾
	A601s D70	Black Specification	65 ±5	~1.60	5	250	-20	70	90	Mat with checker design Tested acc. to DIN EN 60243-1 Dielectric strength 20kV ¹⁾

INDUSTRIAL MATTING

NR-SBR	A9506 RW2	Black Commercial	70 ±7	~1.46	4	200	-30	70	90	Mat with fine-grooved design
	A9506 RW3	Black Commercial	70 ±7	~1.46	4	200	-30	70	90	Mat with wide-grooved design
	A9506 D20	Black Commercial	70 ±7	~1.46	4	200	-30	70	90	Mat with Semperit circular stud design
	A9506 D70	Black Commercial	70 ±7	~1.46	4	200	-30	70	90	Mat with checker design
	A608 RW2	Grey Commercial	70 ±5	~1.60	5	300	-20	70	90	Mat with fine-grooved design
	A608 D70	Grey Commercial	70 ±5	~1.60	5	300	-20	70	90	Mat with checker design
NBR-SBR	P9540 RW2	Black High-grade	65 ±5	~1.45	7	250	-10	70	90	Mat with fine-grooved design Good resistance to oil and benzine ²⁾
	P9540 RW3	Black High-grade	65 ±5	~1.45	7	250	-10	70	90	Mat with wide-grooved design Good resistance to oil and benzine ²⁾
	P9540 D70	Black High-grade	65 ±5	~1.45	7	250	-10	70	90	Mat with checker design Good resistance to oil and benzine ²⁾

1) Marked with vulcanettes

2) Swelling [DIN ISO 1817 (DIN 53521)]: 70h/100°C, Medium: IRM903, Hardness: -5 ShoreA, Volume: +10%

DESIGNS



RW2 – Fine-grooved design



RW3 – Wide-grooved design



D70 – Checker design



Important Notice: This brochure was designed throughly to give the best and comprehensive information to our customer. The stated information, numbers, calculations, test values and data are the result of tests and trials over many years and/or are based on resistance values as per ISO TR 7620-1986 for the media listed and correspond to the technical standards at the time of this publication. Kindly keep yourself up-to-date with the relevant product information available at www.semperitgroup.com, at our specialized dealers or Semperit application engineers.

Warning: Individual operational requirements influence the use of each product especially regarding wear inspection and replacement cycles. Therefore the information in this catalogue is to be used as a rough guideline and operational requirements are to be checked especially in order to determine whether the specified quality criteria suffice for the intended use. In case of doubt (e.g. chemical resistance) kindly contact our qualified technicians. The use of our products remains the sole responsibility of the user. We have no influence on the application and the particular purpose for which the product is used. Naturally we warrant high quality of our products in accordance with our General Conditions of Sale that are available on request or can also be downloaded from www.semperitgroup.com. Subject to changes at any time.

Va 04.2022. Copyright Semperit. Subject to alteration without prior notice: In order to always have the latest product and safety information make sure you visit our website (www.semperitgroup.com) regularly or contact specialist dealers or a Semperit application engineer. Additional important general information about the range, storage and tolerances can also be found at our website (www.semperitgroup.com) and must be followed without exception.

CONTACT US

Semperit Technische Produkte Gesellschaft m. b. H.
Triester Bundesstraße 26,
2632 Wimpassing, Austria
Tel.: +43 2630 310 0
E-mail: sales.sheeting@semperitgroup.com
Website: www.semperitgroup.com

