



SEMPERIT

Tolerancias de espesor estándar

Espesor nominal [mm]	Tolerancias [mm]		
	Láminas de elastómero	Diseño y esteras aislantes.	Láminas resistentes al desgaste
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
hasta 6 mm	DIN 7715 P2	DIN 7715 P3	DIN 7715 P3
más de 6 mm	ISO 3302 ST2	ISO 3302 ST3	ISO 3302 ST3

Tolerancia de ancho: +/- 2% ISO 3302 SW1

Tolerancia de longitud: +/- 2%






Las siguientes tolerancias especiales de grosor se aplican a todas las calidades de luz (por ejemplo, láminas de alimentos):

0,5 mm - 5,0 mm DIN 7715 P2

6,0 mm - 10,0 mm ISO 3302 ST2

NR-SBR

A 590

-  NR-SBR, black – high-grade
-  excellent mechanical properties
-  moderately weather resistant
-  antistatic – specific current-flow resistance tested according to VDE 0303-30:1993 < 1 MegaOhm*cm
-  packaging see General Information

Hardness [Shore A]: 60 ±5
 Density [g/cm³]: 1.15
 Tensile strength [N/mm²]: 15
 Elongation at break [%]: 400
 Ozone resistance: moderately resistant
 Weather resistance: moderately resistant
 Oil resistance: non resistant
 Benzine resistance: non resistant
 Acid resistance: moderately resistant
 Strong bases: resistant
 Abrasion resistance: good suitable

WORKING TEMPERATURE RANGE

Medium	dyn. (stat.)	max.	short-term
Air	-30 (-35) °C	+70 °C	+90 °C

COMPRESSION SET DIN ISO 815

Duration	Temperature	CS
22 h	70 °C	30 %

AGING DIN 53508

Conditions	Hardness	Strength	Elongation
70h/70 °C	+5 Shore A	-10 %	-15 %

ROTA-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4011 70100	1.0	1.4	20	SS	0
4011 70150	1.5	1.4	20	SS	0
4011 70200	2.0	1.4	20	SS	0
4011 70300	3.0	1.4	10	SS	0
4011 70400	4.0	1.4	10	SS	0
4011 70500	5.0	1.4	10	SS	0
4011 70600	6.0	1.4	10	SS	0
4011 70800	8.0	1.4	5	SS	0

PRESS-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4213 70100	10.0	1.4	5	SS	0
4213 70120	12.0	1.4	5	SS	0
4213 70150	15.0	1.4	5	SS	0
4213 70200	20.0	1.4	5	SS	0
4213 70250	25.0	1.4	5	SS	0
4213 70300	30.0	1.4	5	SS	0
4213 70400	40.0	1.4	5	SS	0

S = smooth

Please Note:

22.8.2003




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NR-SBR

A 9506

-  NR-SBR, black - commercial
-  standard quality 70 Shore, for minor demands
-  packaging see General Information

Hardness [Shore A]:	70 ±7
Density [g/cm3]:	approx. 1,46
Tensile strength [N/mm2]:	4
Elongation at break [%]:	200
Ozone resistance:	non resistant
Weather resistance:	non resistant
Oil resistance :	non resistant
Benzine resistance:	non resistant
Acid resistance:	moderately resistant
Strong bases:	moderately resistant
Abrasion resistance:	non suitable

WORKING TEMPERATURE RANGE

Medium	dyn. (stat.)	max.	short-term
Air	-10 (-30) °C	+70 °C	+90 °C

COMPRESSION SET DIN ISO 815

Duration	Temperature	DVR
22 h	70 °C	50 %

ROTA-cured-sheets

Article-number	Thick-ness mm	Width m	Length m	Sur-face	No of insert
4011 06100	1,0	1,4	20	S S	0
4011 06150	1,5	1,4	20	S S	0
4011 06200	2,0	1,4	20	S S	0
4011 06300	3,0	1,4	10	S S	0
4011 06400	4,0	1,4	10	S S	0
4011 06500	5,0	1,4	10	S S	0
4011 06600	6,0	1,4	10	S S	0
4011 06800	8,0	1,4	5	S S	0
4011 06000	10,0	1,4	5	S S	0

PRESS-cured-sheets

Article-number	Thick-ness mm	Width m	Length m	Sur-face	No of insert
4213 07120	12	1,4	5	S S	0
4213 07150	15	1,4	5	S S	0
4213 07200	20	1,4	5	S S	0
4213 07250	25	1,4	5	S S	0
4213 07300	30	1,4	5	S S	0
4213 07400	40	1,4	5	S S	0
4213 07500	50	1,4	5	S S	0

S = smooth

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07.01.2013

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NBR

P 9540

- Ⓢ NBR-SBR, black – high-grade
- Ⓢ excellent ratio of price and performance
- Ⓢ good oil resistant
- Ⓢ good benzine resistant (also suitable for unleaded fuel): 70 h, 23 °C, Fuel B (ISO 1817), 20 % volume swell
- Ⓢ for minor mechanical demands
- Ⓢ packaging see General Information

Hardness [Shore A]: 65 ±5
 Density [g/cm³]: approx. 1.45
 Tensile strength [N/mm²]: 7
 Elongation at break [%]: 250
 Ozone resistance: non resistant
 Weather resistance: non resistant
 Oil resistance: good resistant
 Benzine resistance: good resistant
 Acid resistance: moderately resistant
 Strong bases: moderately resistant
 Abrasion resistance: non resistant

WORKING TEMPERATURE RANGE

Medium	dyn. (stat.)	max.	short-term
Air	(-10) °C	+70 °C	+90 °C

COMPRESSION SET DIN ISO 815

Duration	Temperature	CS
22 h	+70 °C	+40 %

AGEING DIN 53508

Conditions	Hardness	Strength	Elongation
70 h/70 °C	+ 7 Shore A	-10 %	-20 %

SWELLING DIN 53521

Medium	Conditions	Hardness	Volume
IRM 903	70 h/+100 °C	-5 Shore A	+10 %

ROTA-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4011 40100	1.0	1.4	20	S S	0
4011 40150	1.5	1.4	20	S S	0
4011 40200	2.0	1.4	20	S S	0
4011 40300	3.0	1.4	10	S S	0
4011 40400	4.0	1.4	10	S S	0
4011 40500	5.0	1.4	10	S S	0
4011 40600	6.0	1.4	10	S S	0
4011 40800	8.0	1.4	5	S S	0
4011 40000	10.0	1.4	5	S S	0

PRESS-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4213 40120	12.0	1.4	5	S S	0
4213 40150	15.0	1.4	5	S S	0
4213 40200	20.0	1.4	5	S S	0
4213 40250	25.0	1.4	5	S S	0
4213 40300	30.0	1.4	5	S S	0
4213 40400	40.0	1.4	5	S S	0
4213 40500	50.0	1.4	5	S S	0

S = smooth

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CR

N 9581

-  CR-SBR, black – commercial
-  excellent ratio of price and performance
-  moderately weather resistant,
-  for minor mechanical demands
-  special manufacture – please note minimum order quantity
-  packaging see General Information

Hardness [Shore A]:	65 ±5
Density [g/cm ³]:	approx. 1.4
Tensile strength [N/mm ²]:	6
Elongation at break [%]:	200
Ozone resistance:	moderately resistant
Weather resistance:	moderately resistant
Oil resistance:	non resistant
Benzine resistance:	non resistant
Acid resistance:	moderately resistant
Strong bases:	moderately resistant
Abrasion resistance:	non suitable

WORKING TEMPERATURE RANGE

Medium	dyn. (stat.)	max.	short-term
Air	-30°C	+70 °C	+90 °C

COMPRESSION SET DIN ISO 815

Duration	Temperature	CS
22 h	70 °C	40 %

AGEING DIN 53508

Conditions	Hardness	Strength	Elongation
70 h/70 °C	+7 Shore A	-15 %	-25 %

ROTA-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4011 81100	1.0	1.4	20	S S	0
4011 81150	1.5	1.4	20	S S	0
4011 81200	2.0	1.4	20	S S	0
4011 81300	3.0	1.4	10	S S	0
4011 81400	4.0	1.4	10	S S	0
4011 81500	5.0	1.4	10	S S	0
4011 81600	6.0	1.4	10	S S	0
4011 81800	8.0	1.4	5	S S	0
4011 81000	10.0	1.4	5	S S	0

PRESS-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4213 81120	12.0	1.4	5	S S	0
4213 81150	15.0	1.4	5	S S	0
4213 81200	20.0	1.4	5	S S	0
4213 81250	25.0	1.4	5	S S	0
4213 81300	30.0	1.4	5	S S	0
4213 81400	40.0	1.4	5	S S	0
4213 81500	50.0	1.4	5	S S	0

S = smooth

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EPDM

E 9566

- Ⓢ EPDM, black – high-grade
- Ⓢ excellent ratio of price and performance, cross-linked by sulphur
- Ⓢ good weather and ozone resistant
- Ⓢ meets various automotive standards, e.g. VW 2.8.1 G70, please contact our sales office for particular confirmations for specific automotive standards
- Ⓢ packaging see General Information

Hardness [Shore A]: 70 ±5
 Density [g/cm³]: approx. 1.30
 Tensile strength [N/mm²]: 7
 Elongation at break [%]: 250
 Ozone resistance: good resistant
 Weather resistance: good resistant
 Oil resistance: non resistant
 Benzine resistance: non resistant
 Acid resistance: resistant
 Strong bases: good resistant
 Abrasion resistance: moderately suitable

WORKING TEMPERATURE RANGE

Medium	dyn. (stat.)	max.	short-term
Air	(-40) °C	+100 °C	+120 °C

COMPRESSION SET DIN ISO 815

Duration	Temperature	CS
22 h	70 °C	35 %

AGEING DIN 53508

Conditions	Hardness	Strength	Elongation
70 h/100 °C	+10 Shore A	-10 %	-25 %

OZONE RESISTANCE

Duration	pphm Ozone	Temperature	Crack Level
48 h	200 pphm	40 °C	0

ROTA-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4011 66100	1.0	1.4	20	S S	0
4011 66150	1.5	1.4	20	S S	0
4011 66200	2.0	1.4	20	S S	0
4011 66300	3.0	1.4	10	S S	0
4011 66400	4.0	1.4	10	S S	0
4011 66500	5.0	1.4	10	S S	0
4011 66600	6.0	1.4	10	S S	0
4011 66800	8.0	1.4	5	S S	0
4011 66000	10.0	1.4	5	S S	0

PRESS-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4213 66120	12.0	1.4	5	S S	0
4213 66150	15.0	1.4	5	S S	0
4213 66200	20.0	1.4	5	S S	0
4213 66250	25.0	1.4	5	S S	0
4213 66300	30.0	1.4	5	S S	0
4213 66400	40.0	1.4	5	S S	0
4213 66500	50.0	1.4	5	S S	0

S = smooth

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NR-SBR

A 621

- Ⓞ NR-SBR, white – specification
- Ⓞ food quality BgVV XXI(BGA), category 4
- Ⓞ non suitable for fatty food
- Ⓞ KTW: category D2 – small sized gaskets, cold and warm water
- Ⓞ packaging see General Information

Hardness [Shore A]:	65 ±5
density [g/cm ³]:	1.43
Tensile strength [N/mm ²]:	8
Elongation at break [%]:	380
Ozon resistance:	non resistant
Weather resistance:	non resistant
Oil resistance:	non resistant
Benzine resistance:	non resistant
Acid resistance:	moderately resistant
Strong bases:	resistant
Abrasion resistance:	moderately suitable

WORKING TEMPERATURE RANGE

Medium	dyn. (stat.)	max.	short-term
Air	-30 (-45) °C	+70 °C	+90 °C

COMPRESSION SET DIN ISO 815

Duration	Temperature	CS
22 h	70 °C	40 %

AGEING DIN 53508

Conditions	Hardness	Strength	Elongation
70h/70°C	+5 Shore A	-10 %	-15 %

ROTA-CURED-SHEETS

Article-number	Thickness mm	Width m	Length m	Surface	No. of insert.
4011 22100	1.0	1.4	20	SS	0
4011 22150	1.5	1.4	20	SS	0
4011 22200	2.0	1.4	20	SS	0
4011 22300	3.0	1.4	10	SS	0
4011 22301	3.0	1.4	10	SS	1
4011 22400	4.0	1.4	10	SS	0
4011 22500	5.0	1.4	10	SS	0
4011 22600	6.0	1.4	10	SS	0
4011 22800	8.0	1.4	5	SS	0
4011 22000	10.0	1.4	5	SS	0

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