Zakłady Chemiczne Spółdzielnia Pracy in Goleniow	TECHNICAL CONDITIONS FOR ACCEPTANCE	TCA-3/2016
	RUBBER PACKING SHEETS	Page 1 NUMBER OF PAGES – 4 NUMBER OF ANNEXES – 35

#### 1. Subject of TCA.

The subject of the technical conditions for acceptance are rubber packing sheets with material plies or without material plies.

### 2. Application.

Rubber sheets are designed mainly for performing seals, working statically unstreched.

Rubber sheets are not recommended for use in conditions where they may be exposed to sunlight and ozone.

#### 3. Model.

Depending on the type of caoutchouc contained in product (SBR - styrene-butadiene copolymer, CR-polychloroprene, NBR – butadiene-acrylonitrile copolymer, EPDM - ethylene-propylene-diene terpolymer, NR – natural rubber) the following models of rubber sheets are distinguished:

- SBR based on SBR,
- SBR/AAA based on NR and SBR,
- NBR based on SBR and NBR,
- EPDM based on SBR and EPDM (ca. 12%),
- CR based on SBR and CR (ca. 9%),
- NR-L based on SBR and NR.

#### 4. Type.

Depending on properties in the same kind of rubber, the following types of rubber sheets are distinguished:

- AA rubber sheets with increased resistance to abrasion,
- AAA rubber sheets with increased resistance to abrasion and very high strength requirements,
- E anti-static properties,
- TP rubber sheets with increased resistance to burning,
- B rubber sheets with increased resistance to petrol.

Zakłady Chemiczne Spółdzielnia Pracy in Goleniow	TECHNICAL CONDITIONS FOR ACCEPTANCE	TCA-3/2016
	RUBBER PACKING SHEETS	Page 2 NUMBER OF PAGES – 4 NUMBER OF ANNEXES – 35

## 5. Appearance.

Color of rubber sheets – normally – black, except rubber sheets NR-L in natural color (beige) or other color agreed with the customer.

Rubber sheets have smooth surfaces on both sides or at customer's request the surface can has the imprinted fabric.

Rubber surface may also have some protection powder from sticking plate, whereby dusting can not be excessive.

## 6. Dimensions and dimensional tolerances for rubber packing sheets.

Thickr mm		Wic mi			ngth m	Number of plies
1						
1,5						
2						1
2,5	±0,3			10 000	±100	
3		1 000				
3,5		or				
4		1 200				
5		or				1 or 2
6	±0,5	1 400				
8				5 000	±50	
10	±0,8		±30			
12	±1,2					
15	±1,5					1 or 2 or 3
20	±2,0					
25	±2,5					
30	±3,0	1 000		1 000	±30	
35	±3,5					
40	±3,5					
50	±4,0					

It is possible to produce rubber sheet of different dimensions and tolerances, agreed with the customer.

It is possible to produce rubber sheet of different number of plies, agreed with the customer.

Zakłady Chemiczne Spółdzielnia Pracy in Goleniow	TECHNICAL CONDITIONS FOR ACCEPTANCE	TCA-3/2016
	RUBBER PACKING SHEETS	Page 3 NUMBER OF PAGES – 4 NUMBER OF ANNEXES – 35

# 7. Parameters of rubber sheets are placed in the cards of technical parameters which are annexed to this document.

No.	Product
1	SBR 50
2	SBR 65
3	SBR 75
4	SBR 80
5	SBR 90
6	SBR 50 COLOR
7	SBR 65 COLOR
8	SBR 85 COLOR
9	SBR/AA 50
10	SBR/AA 65
11	SBR/AAA 65
12	SBR/AAA 68

No.	Product
13	SBR ANTI-STATIC
14	NBR 50
15	NBR 65
16	NBR 80
17	NBR 90
18	NBR 50 COLOR
19	NBR 65 COLOR
20	NBR/AA 55
21	NRB/B
22	EPDM 50
23	EPDM 60
24	EPDM 65

No.	Product
25	EPDM 75
26	EPDM 80
27	EPDM 90
28	EPDM 65 COLOR
29	CR 50
30	CR 65
31	CR 65 COLOR
32	CR/TP
33	NR-L 45
34	NR-L 60
35	NR-L 55 RED GB

It is possible to produce rubber sheets of different parameters, agreed with the customer.

## 8. Bond strength the rubber with material plies.

For rubber sheets SBR, NR-L no less than 1 kN/m.

For the others no less than 0,5 kN/m.

# 9. Unacceptable defects in rubber sheet workmanship.

Defect determination	Unacceptable value
Blisters	an area above 1cm <sup>2</sup> and above 3 of 1 m <sup>2</sup>
Recesses and protrusions	in size above 1 cm <sup>2</sup> and a depth and a height above:
	• 0,3 mm for rubber sheets to 6mm thick,
	• 0,5 mm for rubber sheets from 6 to 10mm thick,
	• 1,0 mm for rubber sheets above 10mm thick,
	above 3 of 1 m <sup>2</sup> and for SBR rubber sheet above 5 of 1 m <sup>2</sup>
Traces folded compound after	a depth and a height above 0,2 mm and a length above 100 mm above 1 of 1 m <sup>2</sup>
calendering	
Foreign bodies	
metallic	not permitted
• non-metallic	with a diameter of more than 1mm above 3 of 1 m <sup>2</sup>

Zakłady Chemiczne Spółdzielnia Pracy in Goleniow	TECHNICAL CONDITIONS FOR ACCEPTANCE	TCA-3/2016
	RUBBER PACKING SHEETS	Page 4 NUMBER OF PAGES – 4 NUMBER OF ANNEXES – 35

### 10. Packing.

Rubber sheet should be rolled into rolls with even edges (without shifted rolls). At the customer's request rubber sheets to 3,5 mm thick can be rolled on paper tubes. Rolls are fastened with a string.

The rolls can be formed in the loading units on wooden pallets in a vertical position or in a horizontal position. The load on the pallet should be secured with propylene tape and shrink wrapped so that it creates with the pallet a compact and stable loading unit.

Rubber sheets with dimensions of 1000x1000 mm should be formed into loading unit on wooden pallets with dimensions of 1050x1050 mm to 1,2 m height. The whole strapped.

Different type of packing, agreed with the customer, is possible.