www.idcrubber.com

CATALOGUE

iDC

RUBBER SHEETS

GRUPO ELASTORSA

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RUBBER SHEETS

We are **manufacturers of technical rubber sheets and mats** belonging to **Grupo Elastorsa** since 2013 with a clear focus on the customer, teamwork and continuous improvement.

We design and manufacture **customised solutions**, always focusing on **quality**, **innovation** and **sustainability.**

PRODUCTS

At IDC we consider the quality of our products to be our greatest responsibility, which is why total control of the product and the assurance of the final specifications are the fundamental bases of our processes.

Given the many technical features of the material we manufacture, below is a chart to help in the choice of product. This data should be treated only as a guide in the choice of the right product.

RESISTANCES CHART

Our team remains at your disposal for any questions or advice.

Capacity and manufacturing tolerances

We manufacture rubber sheets in **thicknesses between 0.5mm and 6mm with widths up to 2000mm**, and rubber sheets in **thicknesses between 7mm and 50mm with a maximum width of 1500mm**.

We offer different finishes: smooth, matt, different types of fabric impressions and bonding layer on one side.

In addition, we can manufacture with different textile and metallic reinforcements.

TOLERANCES			
TOLERANCES IN THICKNESS			
FROM	TO (INCLUDED)	SHEET	MAT
0,50	1,00	+/-0,20 (1)	
1,00	1,60	+/-0,25 (1)	
1,60	2,50	+/-0,35 (1)	
2,50	4,00	+/-0,40 (1)	+/-0,50
4,00	5,00	+/-0,50 (1)	+/-0,50
5,00	6,30	+/-0,50 (1)	+/-0,60
6,30	10,00	+/-0,80 (1)	+/-10%
10,00	16,00	+/-1,00 (2)	
16,00	60,00	+/-7% (2)	
TOLERANCES IN WIDTH (%)			
+/-2%			
TOLERANCES IN LENGTH (%)			
+/-5%			

SALES CONDITIONS	
TOLERANCES IN LENGTH	
<= 5 ROLLS	> 5 ROLLS
1 roll out of tolerances	10% of the ordered Rolls
TOLERANCES IN QUANTITY	
Up to +20% of ordered m^2	-5%7+10% of ordered m^2

(1) According to norm ISO 3302ST2
(2) According to ISO 3302ST3 for widths over 1400mm +/-10%

Preservation and storage

Prolonged storage of vulcanised rubber products in unsuitable conditions can lead to alterations in the properties of the product and compromise its performance.

DIN 7716 and ***ISO 2230*** detail the recommendations to be followed to ensure the quality of the stored product:

- Temperatures between 5°C and 25°C. In no case exceeding the latter.
- Dry storage place with some ventilation, avoiding drafts, and free of dust.
- The articles must be protected from any source of heat and water condensation. Relative humidity below 65 %.
- The articles must be protected from UV radiation and ozone, preferably in airtight and light-tight packaging. Keep the product away from generators, electric motors and any ozone emitting sources.
- The storage area must be free of chemicals that may deteriorate the articles, mainly hydrocarbons, solvents and acids.

CLASIFICATION	INITIAL STORAGE PERIOD WITHOUT TECHNICAL INSPECTION	EXTENSION OF THE INITIAL PERIOD AFTER TECHNICAL INSPECTION
GROUP A	5 YEARS	2 YEARS
GROUP B	7 YEARS	3 YEARS
GROUP C	10 YEARS	5 YEARS

Group A: BR; NR; IR; SBR; AU y EU.
Group B: NBR; H-NBR; X-NBR; IIR; BIIR; CIIR; CR; ACM; CO y ECO.
Group C: CM; CSM; EPM; EPDM; FKM; FFKM; Q; FQM; PMQ; PVMQ; MQ y VMQ.

In addition, items should be stored in a tension and compression free position while maintaining a horizontal position.

Suspension and crushing should be avoided, while maintaining stress prevention and minimising product deformation.

All these **recommendations** should be taken into account to ensure **optimal properties** of elastomeric products, especially if the application conditions are severe.

In any case, our recommendation is that if the storage period of a vulcanised rubber sheet exceeds the recommended time (see chart), the material should be thoroughly inspected for deviations in both appearance and mechanics, so that if it does not meet the original specification, it should be discarded.

Warranties

IDC guarantees that our products are manufactured in accordance with the standard technical characteristics confirmed in the offer, as well as the suitability of the stored product, provided that the stated storage recommendations in accordance with ***DIN 7716*** and ***ISO 2230*** are complied with.

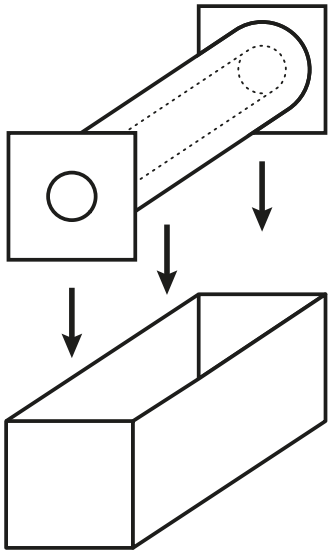
We provide a guarantee for the products manufactured, with a period of 18 months from the date of invoicing.

LAMINATED RUBBER SHEETS

IDC manufactures high quality laminates in any type of rubber (**NR, Ebonite, SBR, Butyl, NBR, EPDM...etc**).

Our laminates can be supplied in **thicknesses between 0,5 and 8 mm, and in widths of up to 1400 mm**, depending on the type and thickness requested.

They are presented in reels with **embossed film (non-stick) and in palletised cardboard boxes** for protection, better preservation and ease of handling.



We offer specially designed formulations for protection against chemical corrosion, abrasion and other aggressive agents.

RUBBER SHEETS

REFERENCE	COLOUR	ELASTOMER	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	ABRASION (mm³) MAX	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
4017		NR/SBR	45	1,05	15	600	80 (5N)	-25/80					
4024		NR/SBR	75	1,21	15	300	130 (10N)	-25/+80					
4026		NR/SBR	60	1,15	16	400	90 (10N)	-25/+80					
4040		NR/SBR	50	1,46	7	550	225 (5N)	-25/+80					
4067		NR/SBR	60	1,15	12	350	120 (5N)	-25/+80					
4028		NR	34	0,95	25	600	70 (5N)	-40/+80					
4094		NR	45	1,06	12	400		-40/+80					
4082		NBR	70	1,39	7	550		-30/+100					
4096		EPDM*	70	1,23	9	200	275 (10N)	-40/+150					
4004		EPDM	70	1,24	8	350		35/+120					
4013		EPDM	70	1,14	11	200		-35/+120					
4044		EPDM	40	1,06	8	600		-35/+120					
4018		CR	70	1,3	13	250		-30/+110					
4020		CIIR	70	1,35	4,5	200		-30/+150					

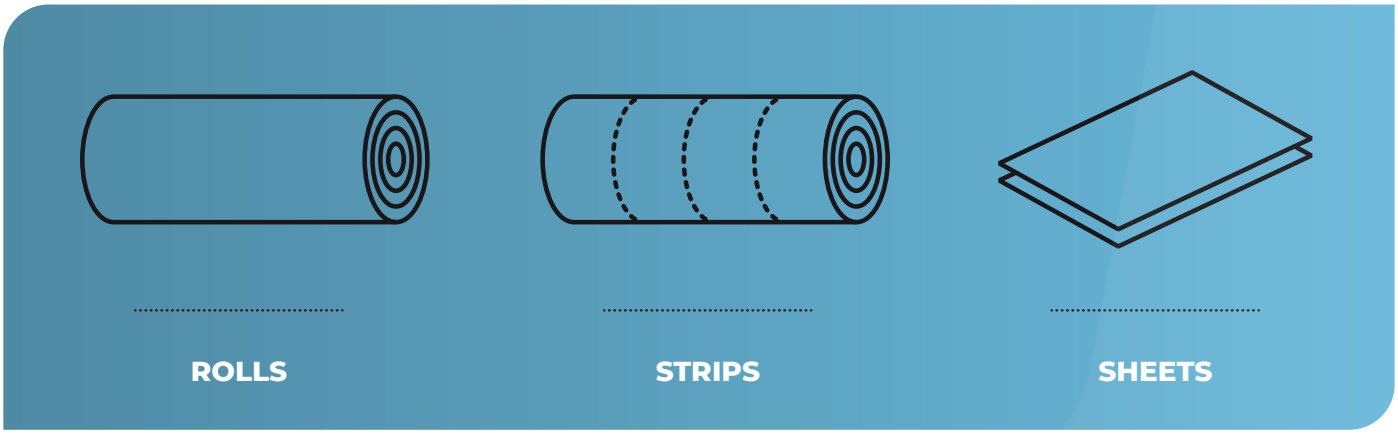
* EPDM Peroxyde

● Not suitable | ● Low | ● Moderate | ● Good | ● Excellent

RUBBER SHEETS

At IDC we have and develop formulations based on different elastomers (**NR, SBR, NBR, CR, EPDM, IIR, BR, CSM, AEM and FKM**).

We have special formulations that respond to different standards relating to electrical insulation, fire resistance, contact with foodstuffs and special performance.



Styrene butadiene - SBR

Sheets suitable for installations without chemical aggression, such as water, air and applications involving mechanical seals.

	REFERENCE	COLOUR	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
SBR	104	●	50	1,13	5	220	-25/+80	●	●	●	●	●
	105	●	60	1,16	6,5	220	-10/+70	●	●	●	●	●
	110	●	70	1,49	4	150	-10/+70	●	●	●	●	●
	701	●	62	1,15	9	350	-25/+80	●	●	●	●	●
	710	●	70	1,49	4	150	-10/+70	●	●	●	●	●
	224	●	50	1,62	3,5	450	-10/+70	●	●	●	●	●
	206	●	50	1,44	7	500	-40/+80	●	●	●	●	●
	208	○	60	1,4	10	400	-25/+80	●	●	●	●	●
	210	●	65	1,62	4	400	-10/+70	●	●	●	●	●
	211	○	65	1,62	4	400	-10/+70	●	●	●	●	●
	218	●	65				-25/+80	●	●	●	●	●

● Not suitable | ● Low | ● Moderate | ● Good | ● Excellent

Natural - NR

Sheets with good mechanical properties suitable for elastic and cushioning applications.

	REFERENCE	COLOUR	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	ABRASION (mm³) MAX	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
NR	813		37	0,95	25	600	70 5N)	-40/+80	Moderate	Moderate	Low	Moderate	Moderate
	846		38	0,95	25	700	65 (5N)	-40/+80	Moderate	Moderate	Low	Moderate	Moderate
	850		40	0,96	22,5	600	70 (5N)	-40/+80	Moderate	Moderate	Low	Moderate	Moderate
	823		45	1,01	20	550	70 (5N)	-40/+80	Moderate	Moderate	Low	Moderate	Moderate
	2410		45	1,13	22	500	80 (5N)	-30/+120	Moderate	Moderate	Low	Moderate	Moderate
	898		40	1,05	8	550	90 (5N)	-25/+80	Moderate	Moderate	Low	Moderate	Moderate
	881		45	1,16	12	600	90 (5N)	-25/+80	Moderate	Moderate	Low	Moderate	Moderate
	313		45	1,18	12	600	90 (5N)	-25/+80	Moderate	Moderate	Low	Moderate	Moderate
	809		45	1,16	12	600	90 (5N)	-25/+80	Moderate	Moderate	Low	Moderate	Moderate
	811		45	1,16	12	600	90 (5N)	-25/+80	Moderate	Moderate	Low	Moderate	Moderate
	2219		55	1,21	10	350		-25/+80	Moderate	Moderate	Low	Moderate	Moderate
	2245		55	1,2	10	400	190 (10N)	-25/+80	Moderate	Moderate	Low	Moderate	Moderate

Not suitable | Low | Moderate | Good | Excellent

Ethylene Propylene - EPDM

Sheets with high resistance to atmospheric agents, acids, alkalis and chemical products in general.

	REFERENCE	COLOUR	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
EPDM	2125		30	1,06	10	600	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2124		40	1,06	8	600	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2106		50	1,13	9	400	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2162*		50	1,18	7	300	-40/+150	Excellent	Excellent			Excellent
	2110		60	1,14	8	350	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2142		60	1,28	8	350	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2111		70	1,2	9	225	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2136*		70	1,23	9	200	-40/+150	Excellent	Excellent			Excellent
	2138		70	1,35	9	300	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2143*		70	1,23	9	200	-40/+150	Excellent	Excellent			Excellent
	2170		70	1,31	6	200	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2127		80	1,34	6	250	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent
	2190		85	1,28	7	200	-35/+120	Excellent	Excellent	Not suitable	Good	Excellent

*Peroxyde

Not suitable | Low | Moderate | Good | Excellent

Nitrile - NBR

Sheets with good mechanical properties and very resistant to the action of grease, oils and fuels

	REFERENCE	COLOUR	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
NBR	2905		50	1,46	6	450	-30/+100					
	2201		55	1,27	5	300	-30/+100					
	2213		55	1,29	4,5	450	-30/+100					
	2224		55	1,26	6	400	-30/+100					
	2226		55	1,24	8	400	-30/+100					
	2998		58	1,35	8,5	500	-30/+100					
	2999		65	1,4	4,5	230	-20/+90					
	2911		70	1,39	7	550	-30/+100					
	2912		70	1,28	12	230	-30/+100					
	2240		75	1,16	20	500						
	2964		80	1,33	12	150	-30/+100					
	2973		90	1,49	6	150	-30/+100					

Not suitable | Low | Moderate | Good | Excellent

Chloroprene - CR

Sheets with high resistance to atmospheric agents, acids, alkalis and chemical products in general.

	REFERENCE	COLOUR	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
CR	3912		40	1,35	9	575	-30/+100					
	3995		40	1,32	4	450	-20/+100					
	3908		45	1,3	12	500	-30/+110					
	3966		50	1,21	10	480	-30/+110					
	3955		55	1,31	12	300	-30/+110					
	3922		60	1,52	7	500	-30/+100					
	3959		65	1,49	8	300	-30/+110					
	3914		70	1,4	10	250	-30/+100					
	3917		70	1,3	13	250	-30/+100					
	3999		70	1,33	6	200	-20/+100					
	3921		80	1,55	8	290	-30/+100					

Not suitable | Low | Moderate | Good | Excellent

Wear resistant

Sheets suitable for protecting surfaces subjected to heavy impact, abrasion, wear and tear and friction.

WEAR RESISTANT

REFERENCE	COLOUR	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	ABRASION (mm³) MAX	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
1304		40	1,05	17	600	100 (5N)	-40/+80					
1305		40	1,02	17	600	100 (5N)	-40/+80					
1326		40	1,05	11	500	100 (5N)	-25/+80					
1328		40	1,01	25	600	90 (5N)	-40/+80					
1398		40	1,05	8	550	90 (5N)	-25/+80					
1309		45	1,05	15	600	80 (5N)	-25/+80					
1323		45	1,05	10	400	100 (5N)	-40/+80					
1360		45	1,05	15	600	80 (5N)	-25/+80					
1351		45	1,03	14	500	80 (5N)	-25/+80					
1368		45	1,05	15	600	80 (5N)	-25/+80					
1353		47	1,05	15	600	70 (5N)	-25/+80					
1384		50	1,13	5	220	100 (5N)	-25/+80					
1372		55	1,14	17	400	70 (5N)	-50/+80					
1317		55	1,2	10	400	190 (10N)	-25/+80					
1301		60	1,15	16	400	90 (10N)	-25/+80					
1303		60	1,15	15	400	100 (10N)	-25/+80					
1313		60	1,09	18	400	165 (10N)	-40/+80					
1341		60	1,16	17	450	130 (10N)	-10/+70					
1386		60	1,16	6,5	220	100 (5N)	-10/+70					
1319		62	1,15	9	350	130 (10N)	-25/+80					
1312		70	1,16	18	375	155 (10N)	-40/+80					
1343		75	1,21	15	300	130 (10N)	-25/+80					
3942		55	1,36	13	380	225 (10N)	-25/+100					
1336		60	1,16	16	600	100 (10N)	-30/+100					

Not suitable | Low | Moderate | Good | Excellent

Fire and electrical resistant

FIRE > CR and EPDM sheets certified for fire resistance.

	REFERENCE	COLOUR	ELASTOMER	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
FIRE	3961	●	CR	60	1,67	8	550	-30/+110	●	●	●	●	●
	3951	●	CR	60	1,45	10	450	-30/+110	●	●	●	●	●
	3930	●	CR	65	1,69	9	550	-30/+100	●	●	●	●	●
	2157	●	EPDM	70	1,56	5	200	-35/+120	●	●	●	●	●
	2130	●	EPDM	70	1,44	5	350	-35/+120	●	●	●	●	●
	2153	●	EPDM	70	1,4	4	400	-35/+120	●	●	●	●	●

● Not suitable | ● Low | ● Moderate | ● Good | ● Excellent

ELECTRICAL > SBR sheets certified for electrical applications.

	REFERENCE	COLOUR	ELASTOMER	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
ELECTRICAL	321	●	NR/SBR	65	1,6	5	400	-25/+80	●	●	●	●	●
	353	●	SBR	65	1,61	4	400	-10/+70	●	●	●	●	●
	362	●	SBR	65	1,62	3	300	-10/+70	●	●	●	●	●
	363	●	SBR	65	1,62	3	300	-10/+70	●	●	●	●	●
	364	●	SBR	65	1,65	3	300	-10/+70	●	●	●	●	●
	365	●	SBR	65	1,62	3	300	-10/+70	●	●	●	●	●

● Not suitable | ● Low | ● Moderate | ● Good | ● Excellent

Food grade

Sheets suitable for protecting surfaces subject to heavy impact, abrasion, high wear and friction.

	REFERENCE	COLOUR	ELASTOMER	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
FOOD GRADE	2010	●	NR/SBR	50	1,46	550	-25/+80	●	●	●	●	●
	2015	●	NR/SBR	60	1,4	450	-25/+80	●	●	●	●	●
	2016	●	NR	65			-40/+80	●	●	●	●	●
	2109	●	EPDM	60	1,24	450	-35/+120	●	●	●	●	●
	2945	●	NBR	55	1,35	500	-30/+100	●	●	●	●	●
	2944	●	NBR	60	1,4	500	-30/+100	●	●	●	●	●
	2955	●	NBR	60	1,3	500	-30/+100	●	●	●	●	●

● Not suitable | ● Low | ● Moderate | ● Good | ● Excellent

Special

CSM > Sheets with good resistance to ageing, acids and alkalis.

FKM > Sheets specially designed to withstand high temperatures and to obtain the best performance in applications with chemical aggressions.

	REFERENCE	COLOUR	ELASTOMER	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
FKM	1401	●	CSM	65	1,39	10	200	-30/+125	●	●	●	●	●
	1405	●	FKM	70	1,84	6	200	-20/+205	●	●	●	●	●
	1403	●	FKM	75	1,74	5	225	-20/+205	●	●	●	●	●

● Not suitable | ● Low | ● Moderate | ● Good | ● Excellent

IIR - Butyl > Sheets with good chemical, ageing and temperature resistance.

	REFERENCE	COLOUR	ELASTOMER	HARDNESS SHORE A +/-5	DENSITY (g/ cm³) +/-0,03	TENSILE STRENGTH (MPa) min	ELONGATION (%) min	WORKING TEMPERATURE (°C)	OZONE	WEATHER	OIL	ACID	BASE
IIR -Butyl	2308	●	CIIR	50	1,2	9	475	-30/+150	●	●	●	●	●
	2310	●	CIIR	65	1,18	8	400	-30/+150	●	●	●	●	●
	2357	●	CIIR	65	1,18	9	400	-30/+150	●	●	●	●	●

● Not suitable | ● Low | ● Moderate | ● Good | ● Excellent

Mirror finish of FKM

R+D

Our firm commitment to **research, development** and **innovation** in new formulations, the design of new products and process improvement means that we are decisive, have a great capacity for adaptation and are open to challenges that allow us to advance as a company.

Thanks to the wide variety of formulations of elastomers **NR, SBR, NBR, CR, EPDM, IIR, BR, CSM, AEM** and **FKM,** as well as the management of knowledge acquired over the years, we can offer the best comprehensive solution to the needs of our customers.

We have prepared laboratories and a highly qualified professional team to tackle projects. Our commitment to continuous improvement leads us to create interdepartmental synergies, forming a multidisciplinary group capable of providing integrated solutions for mixtures and processes.

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