



"ZEBRA" AD

AD

1280 Novi Iskar
Sofia, Bulgaria



"ZEBRA" AD is ISO 9001 and ISO 14001 standards certified

GENERAL PURPOSE RUBBER COMPOUNDS

Type of rubber	Group	Color	Hardness Shore Type A units	Tensile strenght, MPa	Resistance to mineral oils	Resistance against acids	Resistance against alkalies	Abrasion resistance	Service temperature
NR	I	black	35-50	>15	.	***	***	**	***
	II	black	50-70	>15	.	***	***	***	**
	III	black	80-90	>5	.	***	***	***	**
IR	I	red	40-50	>6	**	**	**	**	**
	IIA	black	45-55	>10	***	***	***	**	***
	IIIB		55-65	>16	**	****	***	**	**
NR+IR	IA	natural	35-40	>11	.	***	**	**	**
	IB	white	40-50	>11	.	***	**	**	**
SBR	I	black	45-55	>5	.	**	**	**	**
	IIA	black/colored	60-70	>4	.	**	**	**	.
	IIIB	black	65-75	>10	.	**	**	**	.
	IIIA	black/colored	80-86	>4	.	***	**	***	**
	IIIB	black	80-86	>18	.	***	***	***	**
SBR+NR	IIA	colored	>60	>5	.	**	**	***	**
	IIIB	black	65-75	>4	.	**	**	***	**
	IIC	black/green	50-60	>10(6)	.	**	**	**	**
SBR+IR	I	colored/black	45-55	>12	.	***	**	**	***
	II	black	65-75	>11	.	***	***	***	**
	IIIA	black	75-85	>11	.	***	***	***	**
	IIIB	black	85-95	>10	.	***	***	***	**
SBR+NBR	IIA	white/black	55-65	>5	***	***	***	**	***
	IIIB	colored/black	65-75	>5	***	**	**	**	***
	IIC	black	65-75	>12	***	**	**	**	***
NBR	I	black	40-55	>6	****	**	**	***	**
	IIA	blue	55-65	>8	****	**	**	**	***
	IIIB	black	65-75	>8	****	**	**	**	***
	IIIA	black	70-80	>10	****	**	**	***	***
	IIIB	natural	78-86	>14	****	***	***	***	***
	IIC	black	80-92	>11	****	**	**	***	***
NBR+IR	II	black	47-57	>15	**	***	**	***	***
CR	I	white	42-48	>13	***	***	**	*	***
	IIA	colored	55-65	>12	***	***	**	**	***
	IIIB	black	60-70	>12(7)	***	***	**	**	***
	III	black	77-83	>12	***	***	**	**	***
CR+NBR	II	black	55-67	>9	***	**	**	**	***
CR+NR	I	green	42-46	>8	**	***	**	*	**
	IIA	green	70-75	>4	**	***	**	*	**
	IIIB	green	50-55	>8	**	***	**	*	**
	IIC	colored black	50-65	>12(9)	**	***	**	**	***
	III	black	80-92	>11	****	**	**	***	***



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GENERAL PURPOSE RUBBER COMPOUNDS

Type of rubber	Group	Color	Hardness Shore Type A units	Tensile strength, MPa	Resistance to mineral oils	resistance against acids	resistance against alkalis	Abrasion resistance	Service temperature
EPDM	II	black	60-70	>7	.	....	....	.	...
SBR+EPDM	II	grey/black	55-65	>3,5	.	...	...	..	..
NR+BR	II	natural	40-65	>8	.	....	....	..	..
IR+BR	IIA	black	>65	>12	.	....	....	..	..
	IIB	black	65-75	>14	.	....	....	...	..
	IIC	black	57-70	>16	.	....	....	...	..
SBR+BR	IIA	black	58-68	>12	.	....	....	...	..
	IIB	black	58-68	>15	.	....	....	...	..
IR+SBR+BR	IIA	black	55-65	>15	.	....	....	....	..
	IIB	black	58-68	>15	.	....	....	....	..
	III	black	68-78	>9	.	....	....	....	..
ebonite	III	natural			....	....	....	....	....

Legend:

Resistance to liquids		Shore A units		Tensile strength, Mpa	
....	excellent	I	35-50	A	<10
...	good	II	50-70	B	>12
..	fair	III	70-95	C	
.	poor				

We control the mechanical properties of the rubber compounds according to:

Property	Method of control according to
Hardness	BDS ISO 7619
Tensile strength	BDS ISO 37
Relative elongation	BDS ISO 37
Determination of density	BDS ISO 2781
Abrasion resistance	BDS ISO 4649
Determination of the resistance to liquids	BDS ISO 1817
Brittleness temperature	BDS ISO R 812
Determination of rebound resilience	BDS ISO 4662
Heat ageing at specific media at elevated temperature	BDS ISO 1817
Permanent set at ambient and elevated temperature	ISO 815

Delivery form

	Width, mm	Thickness, mm	Length, mm	Packing	Insulation
1. Cut sheets	750-800	4 - 12	1000-1200	Stacked on wooden pallets	plastic foil
2. Strips	600-800	4 - 8		folded on wooden pallets	powdered with chalk or Zn-strearate
3. Calendered sheet	800-1400	1- 3	30000 up to 50000	on wooden rolls	plastic foil