

# BLACKROCK + NR



## HIGH WEAR SHEETING ROUND GRAIN MATERIAL

### FEATURES

Natural rubber, black, 60 Shore A, with very good abrasion resistance.

### APPLICATIONS

Hoppers, chutes, vibrating lines, truck boxes, etc., linings to protect equipment, especially at loading and unloading points, against very abrasive products, due to their very nature (very abrasive rocks, wood, chemical products, etc.), density and hardness (medium to high), shapes (salient, sharp-edged), large grain size, with dry or wet conditions and maximum temperature +70 °C.

Areas of activity: sand and gravel quarries, glassworks, construction and public works, civil engineering, building materials, mechanical engineering, transport, etc.

### ADVANTAGES

- † Excellent shock impact, tear, and abrasion resistance
- † Good heat and ageing resistance
- † Noise and vibration propagation reduction
- † Protection against corrosion
- † Possibility to be produced with bonding layer for cold vulcanizing or with steel backing for mechanical fixing
- † Very high performance at low temperature


### BENEFITS

- † Performance
- † Reliability
- † Economy: reduce downtime and maintenance costs
- † Long service life: lower hourly costs
- † Safety

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
<b>MECHANICAL</b>				
Rubber compound - black			NR	R650
Density			1.12 ±0.05	g/cm <sup>3</sup>
Hardness	ASTM D2240		60 ±5	Shore A
Tensile strength	ISO 37		≥20	MPa
Elongation at break	ISO 37		≥500	%
Tear resistance	ISO 34-1		≥80	N/mm
Abrasion resistance (10N)	ISO 4649		≤90	mm <sup>3</sup>
Compression set after 22h at 70 °C	ISO 815-1		≤30	%
<b>TEMPERATURE</b>				
Working temperature			-50/+85	°C
<b>AGEING</b>				
Δ Hardness after 70h at 70 °C	ASTM D573		≤5	Shore A
Δ Tensile strength after 70h at 70 °C	ASTM D573		≤-10	%
Δ Elongation at break after 70h at 70 °C	ASTM D573		≤-20	%
Ozone resistance, 50pphm, 168h, 30 °C, 20%	ISO 1431-1 method A		No crack	
<b>CHEMICAL RESISTANCE</b>				
Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons	
Very good	Good	Good	Non suitable	
<b>IDENTIFICATION</b>				
Branding	Without.			
Packaging	Thickness ≤6mm rolled on cardboard tube Ø 80mm. Thickness >6mm in roll. Bonding layer internal side protected by a white polypropylene film, easily removable by hand.			
Wrapping	Black polyethylene film.			
Labelling	Self-adhesive label indicating product name, dimensions, area in m <sup>2</sup> , nominal weight, and product code to allow product traceability.			

Unless typographical error, information and figures of our technical datasheet are based on our experience and laboratory tests according to international standards. This data is intended to be used as a guideline only. Material performance depends on the conditions of use and the final application.

NR	HIGH WEAR SHEETING	BLACKROCK +			
THICKNESS mm	WIDTH mm	LENGTH m	WEIGHT kg/m <sup>2</sup>	SIDES FINISH	OPTION (BL = bonding layer)
4±0.4	1400±2%	10±2%	4.48	2 SMOOTH SIDES	
4±0.4	1400±2%	10±2%	4.87	1 SIDE SMOOTH/1 SIDE BONDING LAYER	BL
5±0.4	1400±2%	10±2%	5.75	2 SMOOTH SIDES	
5±0.4	1400±2%	10±2%	5.99	1 SIDE SMOOTH/1 SIDE BONDING LAYER	BL
6±0.5	1500±2%	10±2%	6.72	1 SIDE MATT/1 SIDE BONDING LAYER	BL
6±0.5	1500±2%	10±2%	6.7	1 SIDE SMOOTH/1 SIDE MATT	
8±0.7	1500±2%	10±2%	9.19	1 SIDE MATT/1 SIDE BONDING LAYER	BL
8±0.7	1500±2%	10±2%	8.93	1 SIDE SMOOTH/1 SIDE MATT	
10±1.0	1500±2%	10±2%	11.2	1 SIDE MATT/1 SIDE BONDING LAYER	BL
10±1.0	1500±2%	10±2%	11.16	1 SIDE SMOOTH/1 SIDE MATT	
12±1.0	1500±2%	6±2%	14.77	1 SIDE MATT/1 SIDE BONDING LAYER	BL
12±1.0	1500±2%	6±2%	13.4	1 SIDE SMOOTH/1 SIDE MATT	
15±1.0	1500±2%	6±2%	17	1 SIDE MATT/1 SIDE BONDING LAYER	BL
15±1.0	1500±2%	6±2%	16.74	1 SIDE SMOOTH/1 SIDE MATT	
20±1.4	1500±2%	6±2%	22.47	1 SIDE MATT/1 SIDE BONDING LAYER	BL
20±1.4	1500±2%	6±2%	22.44	1 SIDE SMOOTH/1 SIDE MATT	
25±1.75	1500±2%	6±2%	28.13	1 SIDE SMOOTH/1 SIDE MATT	

