



# BLACKDUST NR

black | density 1.03 | hardness 45

03/07/2014

## SPECIAL WEAR SHEETING: DUST SEALING

### FEATURES

Black natural rubber, with excellent mechanical properties, especially elasticity, ozone and abrasion resistance.

### ADVANTAGES

- ▶ Environmental protection, reducing the spread of dust and soot
- ▶ Less wear of mechanical surrounding parts
- ▶ Simplicity of assembly process: fixing with standardised bars and elbows (inside diameter 14 mm, outside diameter 31 mm)

### BENEFITS

- ▶ Quality of working conditions
- ▶ Safety
- ▶ Service life
- ▶ Cleanliness
- ▶ Time saving

### APPLICATIONS

Sealing of screening systems, conveyor belts, and other dust-generating equipments.

Areas of activity: manufacturing of concrete, limestone, chalk, etc.

[www.trelleborg.com/elastomerlaminates](http://www.trelleborg.com/elastomerlaminates)

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
<b>MECHANICAL</b>				
<i>Rubber compound</i>			NR R431	
<i>Density</i>			1.03 ± 0.05	g/cm <sup>3</sup>
<i>Hardness</i>		ASTM D2240	45 ± 5	Shore A
<i>Tensile strength</i>		ISO 37	≥ 16	MPa
<i>Elongation at break</i>		ISO 37	≥ 600	%
<i>Tear resistance</i>		ISO 34-1	≥ 27	N/mm
<i>Abrasion resistance (5 N)</i>		ISO 4649	≤ 90	mm <sup>3</sup>
<i>Compression set after 22 h at 70 °C</i>		ISO 815-1	≤ 35	%
<b>TEMPERATURE</b>				
<i>Working temperature</i>			-50/+85	°C
<b>AGEING</b>				
<i>Δ Hardness after 70 h at 70 °C</i>		ASTM D573	≤ 5	Shore A
<i>Δ Tensile strenght after 70 h at 70 °C</i>		ASTM D573	≤ -15	%
<i>Δ Elongation at break after 70 h at 70 °C</i>		ASTM D573	≤ -25	%
<b>CHEMICAL RESISTANCE</b>				
<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>	
<b>Very good</b>	<b>Medium</b>	<b>Good</b>	<b>Non suitable</b>	

## DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m <sup>2</sup> )	Pattern
2	± 0.3	1400	± 2 %	20	± 2 %	2.06	2 sides cloth finish

## IDENTIFICATION

<i>Branding</i>	Without.
<i>Packaging</i>	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
<i>Wrapping</i>	Black polyethylene film.
<i>Labelling</i>	Self-adhesive label indicating product name, dimensions, area in m <sup>2</sup> , nominal weight, and product code to allow product traceability.