

# BLACKFIRE CR

16/07/2014



## SPECIAL WEAR SHEETING: FIRE RESISTANT

### FEATURES

Fire and wear resistant high grade chloroprene.

### REGULATIONS

- Fire resistant classified M2 following UNE 23727.
- NF F 16101: smoke opacity following NF X 10702 and toxicity of emitted gases following NF X 70100, class F5
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### ADVANTAGES

- Very good fire resistance
- Very good wear resistance
- Excellent ageing resistance
- Very good heat resistance
- Antistatic
- Very good resistance to animal or vegetable oils
- Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes
- Possibility to be produced with bonding layer for cold vulcanizing or with steel backing for mechanical fixing

### BENEFITS


- Performance
- Service life
- Safety

### APPLICATIONS

General equipment protection or other applications subject to risk of fire.

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

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value
<b>MECHANICAL</b>			
	Rubber compound - black		CR C738 
	Density		1.47 ± 0.05 g/cm <sup>3</sup>
	Hardness	ASTM D2240	70 ± 5 Shore A
	Tensile strength	ISO 37	≥ 10 MPa
	Elongation at break	ISO 37	≥ 250 %
	Tear resistance	ISO 34-1	≥ 20 N/mm
	Abrasion resistance (10 N)	ISO 4649	≤ 200 mm <sup>3</sup>
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 20 %

### TEMPERATURE

	Working temperature		- 30/+ 120 °C
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### AGEING

	Δ Hardness after 70 h at 70 °C	ASTM D573	≤ 5 Shore A
	Δ Tensile strenght after 70 h at 70 °C	ASTM D573	≤ - 15 %
	Δ Elongation at break after 70 h at 70 °C	ASTM D573	≤ - 25 %

### OIL RESISTANCE

	Oil IRM 901, Δ volume after 70 h at 70 °C	ASTM D471	≤ 10 %
	Oil IRM 903, Δ volume after 70 h at 70 °C	ASTM D471	≤ 55 %

### CHEMICAL RESISTANCE

Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
Good	Medium	Very good	Medium

### DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m <sup>2</sup> )	Sides finish
3 ± 0.3	1400 ± 2 %	10 ± 2 %	4.41	2 sides matt
4 ± 0.4	1400 ± 2 %	10 ± 2 %	5.88	2 sides matt
5 ± 0.4	1400 ± 2 %	10 ± 2 %	7.35	1 side smooth/1 side matt
6 ± 0.5	1400 ± 2 %	10 ± 2 %	8.82	1 side smooth/1 side matt
8 ± 0.7	1400 ± 2 %	10 ± 2 %	11.76	1 side smooth/1 side matt
10 ± 1.0	1400 ± 2 %	10 ± 2 %	14.70	1 side smooth/1 side matt

### IDENTIFICATION

Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
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.