

# BLACKFIRE CR



## 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

### APPLICATIONS

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

### 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

## 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 (10N)	ISO 4649		≤200	mm <sup>3</sup>
Compression set after 22h at 70 °C	ISO 815-1		≤20	%
<b>TEMPERATURE</b>				
Working temperature			-30/+120	°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		≤-15	%
Δ Elongation at break after 70h at 70 °C	ASTM D573		≤-25	%
<b>OIL RESISTANCE</b>				
Oil IRM 901, Δ volume after 70h at 70 °C	ISO 1817		≤10	%
Oil IRM 903, Δ volume after 70h at 70 °C	ISO 1817		≤55	%
<b>CHEMICAL RESISTANCE</b>				
Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons	
Good	Medium	Very good	Medium	
<b>IDENTIFICATION</b>				
Branding	Without.			
Packaging	Thickness ≤6mm rolled on cardboard tube Ø 80mm. Thickness >6mm 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.			

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.

CR	SPECIAL WEAR SHEETING	BLACKFIRE			
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%	14.7	1 SIDE SMOOTH/1 SIDE MATT	

