



BLACKFIRE CR

black | density 1.47 | hardness 70

03/07/2014

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

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.

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	Rubber compound		CR C738	
	Density		1.47 ± 0.05	g/cm ³
	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 ³
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 20	%

TEMPERATURE				
	Working temperature		-30/+120	°C

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 ²)	Pattern
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 ² , nominal weight, and product code to allow product traceability.