

# Kautschuk- und Kunststoff-Teile GmbH

Qualitätssicherung nach DIN EN ISO 9001:2015

- Zellkautschuk · Zellpolyethylen · Moosgummi
- Silikonschaum · Schaumstoff · Zellvulkollan
- Dämmplatte · Keramikfaserband
- Dauerelastische Abdichtbänder



## Technical data sheet cellular rubber CR/NBR black

Raw Material Base	CR-Neoprene / NBR
Cellular structure	closed
Referring standard Norm ASTM D-1056	SCE 42-2C2 / SBE 42-2B2
Density ASTM D 3575	150 kg/m <sup>3</sup> ± 25
Thermal Conductivity	0,0384 W/m.K
Water absorption ASTM D 1056	2 % < 5 %
Temperature range ASTM D 1056	- 40° C / + 100° C
Temperature range ASTM D 1056 p.53-60	Pass the Test at -40° C x 16 hour
Linear Shrinkage after 7 days to 70°C (ASTMD 1204)	< 4 % max. < 5 %
Ultimate elongation (ASTM D 412)	> 250 %
Tensile Strength (ASTM D 412)	11,50 kg/cm <sup>2</sup> (1.150 kPa)
Tear resistance (ASTM D 624)	4,3 kg/cm (4,3 kN/m)
Weather and ozone resistance	Air + U.V. very good
Compression Strength ASTM 1056/85	at 25 % - 0,40 kg/cm <sup>2</sup> (40 kPa)
Compression Set at 50 % ASTM 1056	25 % (22 h at room temperature)
Immersion on oil IRM 903 (22 hours at 70°C)	-18.5 % / Class B tab.1 (D 471/98)
Shore hardness ASTM D 2240	50 ° ± 5
Fire Resistant (UL 94 guide lines)	HF1 – for thickness: 2 mm V0 – for thickness: 10 mm
UL 48 par.33 and UL 50 pr.43	pass
Fire Test on face UNI EN ISO 11195-2/05	pass (sample 30 mm)
Residual Test after Incandescence	32,70 %
(Ashes Residual at 950 °C)	VDA Norm 675 130/92
Extract Test in Solvents (Cyclohexane Acetone)	32,70 % (VDA Norm 675 130/92)
Oxygen Index ASTM D 2863	29,3 Lol Medium
Norm AFNOR NF F 16-101/88	GRID 5
Fire Reaction	M2
Smoke Reaction	F3
Smoke INDEX	44
ASTM C 542:2005 – ASTM C 1166:2006	conform (mm.74)
Fogging – Norm UNI 4818/93 part 23 Method B	mg 28,8
Peroxide cure	<b>NO SULPHUR</b>

We reserve the right to deviations in porosity and surface quality as well as changes resulting from new chemical and technological findings. All information is based on tests with the utmost care. Nevertheless, a guarantee that these values do not coincide with results found in practice can not be assumed, because experience has shown that the effects of different factors on the properties and lifetime of the material must be expected in the various fields of application. Shrinkage phenomena in cellular rubber are commercially available and unavoidable.

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