

# Material

## 85 HNBR 137891

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
<b>Density</b> DIN EN ISO 1183-1	1.24 ±0.02	1.24	g/cm <sup>3</sup>
<b>Hardness</b> DIN ISO 7619-1	85 ±5	85	Shore
<b>Modulus</b> 100 %, DIN 53504, S2	---	8	MPa
<b>Tensile strength</b> DIN 53504, S2	> 16	24	MPa
<b>Elongation at break</b> DIN 53504, S2	> 250	310	%
<b>Compression set</b> DIN ISO 815, 22 h, 100 °C	< 55	46	%
<b>Low Temperature</b> ISO 11357-2, DSC	---	-24	°C
<b>Temperature range</b>	-25°C to 130°C		

### Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

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**Tested after ASTM D 2000: M 3 DH 810 A26 EO16 EO36**

		<b>nominal range</b>	<b>typical values</b>
Hardness	Shore	80 ±5	84
Tensile strength	MPa	min. 10	21.5
Elongation at break	%	min. 175	360
<b>A26 Change after aging in Air 70h/150°C</b>			
Hardness	Shore	10	8
Tensile strength	%	-25	10
Elongation at break	%	-30	-25
<b>EO16 Change after aging in IRM 901 70h/150°C</b>			
Hardness	Shore	-5 to 10	1
Tensile strength	%	-20	-7
Elongation at break	%	-30	-25
Volume	%	±5	-2
<b>EO36 Change after aging in IRM 903 70h/150°C</b>			
Hardness	Shore	-15	-14
Tensile strength	%	-30	-5
Elongation at break	%	-30	-27
Volume	%	25	18

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufactories process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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