

Hydrogenated nitrile rubber (HNBR) - 85A

# SKF Ecorubber-H

DIN: HNBR

Property	Unit	Value	Standard
Standard color	–	Black	■
Durometer hardness	Shore A	85 ±5	DIN ISO 7619
Density	g/cm <sup>3</sup>	1,24 ±0,02	DIN EN ISO 1183-1
Tensile strength	MPa	≥ 18	DIN 53504
Elongation at break	%	≥ 180	DIN 53504
100% modulus	MPa	≥ 9	DIN 53504
Compression set 100 °C / 24 h	%	≤ 22	DIN ISO 815
Tear strength	N/mm	24	DIN ISO 34-1
Abrasion	mm <sup>3</sup>	90	DIN ISO 4649
Swelling behavior ASTM Oil No. 1, 70 h / 100 °C			
Change in durometer hardness	Shore A	+6	DIN ISO 7619
Volume change	%	-8	DIN 53521
ASTM Oil No. 3, 70 h / 100 °C			
Change in durometer hardness	Shore A	-8	DIN ISO 7619
Volume change	%	+11	DIN 53521
Swelling behavior, wet			
Change in durometer hardness	Shore A	0	DIN ISO 7619
Volume change	%	+2,5	DIN 53521
Heat resistance, air 70 h / 150 °C			
Change in durometer hardness	Shore A	+5	DIN ISO 7619
Volume change	%	0	DIN 53521
Minimum service temperature	°C	-30	–
Maximum service temperature	°C	+150	–
Short term	°C	+160	–

IMPORTANT NOTE: The values shown above are only valid for material samples prepared for test purposes according to the stated standards. The values density, durometer hardness (Shore A) and those marked with the symbols, greater than or equal to (≥) and smaller than or equal to (≤), are nominal values and must be fulfilled for each batch. These values are tested on selected samples.

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