Material
90 NBR 108

Version	Released on
03	11.12.2017

General Data

Colour:	Black
Type of cross-linking:	Sulfur

Physical Properties	**Nominal Range**	**Typical Value**	
Density DIN EN ISO 1183-1	1.34 ±0.02	1.35	g/cm³
Hardness DIN ISO 7619-1	90 ±5	89	Shore
Rebound resilience DIN 53512		18	%
Modulus 100 %, DIN 53504, S2	10	12.5	MPa
Tensile strength DIN 53504, S2	>15	17	MPa
Elongation at break DIN 53504, S2	>140	170	%
Compression set DIN ISO 815, 22 h, 100 °C	<55	45	%

Temperature Range

static:	-30 to 100 °C

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Print date: 23.06.2026

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Tested after ASTM D 2000: M 7 BG 9 10 A14 B14 EA14 EF11 EF21 EO14 EO34

ASTM Property		Nominal Range	Typical Value
Hardness	Shore	90 ±5	90
Elongation at break	%	min. 100	200
Tensile strength	MPa	min. 10	17
A14 Air 70.00h/100.00°C			
Tensile strength	MPa		4
Elongation at break	%		-48
Hardness	Shore		3
B14 22.00h/100.00°C			
Compression set	%	25	37
EA14 Distilled Water 70.00h/100.00°C			
Hardness	Shore	±10	-5
Volume change	%	±15	6
EF11 Fuel A 70.00h/23.00°C			
Volume change	%	-5 to 10	2
Hardness	Shore	±10	-2
Tensile strength	MPa	-25	-1
Elongation at break	%	-25	-10
EF21 Fuel B 70.00h/23.00°C			
Elongation at break	%	-60	-15
Volume change	%	0 to 40	30
Hardness	Shore	0 to -30	-25
Tensile strength	MPa	-60	-20
EO14 IRM 901 70.00h/100.00°C			

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Volume change	%	-10 to 5	-1
Tensile strength	MPa	-25	3
Elongation at break	%	-45	-30
Hardness	Shore	±5	-4

EO34 IRM 903 70.00h/100.00°C

Elongation at break	%	-45	-35
Volume change	%	0 to 25	15
Hardness	Shore	-10 to 5	-10
Tensile strength	MPa	-45	-5

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Regulatory Material Information for 90 NBR 108

This overview reflects the current available conformity documents for this specific material only, applicable at the date of issue identified below, to the best of our knowledge. It is for information purposes only and does not replace the Declarations of Conformity (DoC) or other article or product-based assessments. The DoC are available upon request under the conditions, limitations, and validity periods specified therein.

Overview Material related documents:	**Release Date**	**Expiration Date**
ROHS and ELV	28.11.2019	31.12.2029

Issue Date: 23.06.2026
It is valid until the mentioned expiry dates or other legal changes become effective.

Disclaimer:

This declaration supersedes all previous versions. The content is subject to change without prior notice.

These declarations are based on our technical state of the art level of knowledge and the regulations applicable on the date of issuance. Recommendations for use or any other descriptions or technical characteristics do not constitute any kind of warranty or guarantee (within the meaning of §§ 434, 435, 443, 444 or 633, 639 of the German Civil Code (BGB)), whether express or implied, or of any fitness or suitability for a particular purpose. It is the user's sole responsibility to determine whether the provided information is appropriate and complete for its purposes and the intended use.

The user bears any product safety and product liability risk including risks of end users or consumers such as risk or danger for life, body or health including compliance with statutory or other regulatory or administrative requirements or technical norms relevant for the components or end products including e.g. declarations of conformity, certificates, approvals or third-party verifications, requirements regarding CE marking, market or product safety requirements or other regulatory requirements.

Our declarations do not release the user from a careful obligation to check and examine its suitability for its procedures, processes and/or purposes, as well as to examine the possibility of impairing the rights of third parties, if necessary. Insofar and considering that we do not have control how this information is used, we disclaim any liability or warranty whether express or implied.

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