

DATASHEET

DATASHEET		Date: 10-12-2021 Version: 3.0
CH No.	CH 4270 Peroxide cured	
Basic elastomer	Ethylene-propylene-diene rubber (EPDM)	
Colour	Black	
Temperature	-50 °C to +150 °C	
Approvals	FDA 177.2600 • ACS • KIWA • W270 • NSF • UBA • EN681-1 WA + WB • WRAS • ÖNORM	

TYPICAL PROPERTIES				
Properties	Unit	Required value	Tested value	Testing methods
Hardness	Shore A	70 ± 5	72	ASTM D 2240
Density	gr/cm ³	1.16 ±0.02	1.16	ASTM D297
Tensile strength	MPa	> 10	16.8	ASTM D 412 C
Elongation at breake	%	> 200	224.2	ASTM D 412 C
Tear Strength	KN/M	> 17	28.9	ASTM D 624 B
Brittle point	°C	< -50	-54.3	ASTM D 2137 A
TR-10	°C	< -50	-51.5	ASTM D1329
Tg midpoint	°C	< -50	-53.7	ASTM D3418
Ozone resistance 72H, 200PPHM, 40°C, 20% elong.	-	No cracks	No cracks	ASTM D 1149
Compression set in 22 h at 150°C	%	< 15	10.2	ASTM D 395 B
Compression set in 70 h at 150°C	%	< 30	21	ASTM D 395 B

AGEING IN WATER 70 HOURS AT 100°C				
Properties	Unit	Required value	Tested value	Testing methods
Volume change	%	-5 to 5	2.40	ASTM D 471

AGEING IN AIR 70 HOURS AT 150°C				
Properties	Unit	Required value	Tested value	Testing methods
Volume change	Shore A	< 10	4.9	ASTM D 573
Tensile change	%	> -20	-9.9	ASTM D 573
Elongation change	%	> -20	-14.3	ASTM D 573

General:

Use of this rubber is indicated when good hot water and steam resistance is required. EPDM is also very resistant to ageing and ozone. Compared with the usual types of synthetic rubber, it has good resistance to hot temperatures. Very good behavior in the presence of oxidizing agents.

Resistant to glycol (Propylene) and water/glycol mixtures up to 150 °C

EPDM is not resistant against aliphatic and aromatic hydrocarbons and mineral oil products.

Please Note:

The mentioned values are average values and result from a limited number of laboratory tests. These tests were performed on standard test specimens and may therefore vary significantly from the values that were determined by means of tests performed on finished parts. On the basis of his own tests, the purchaser must ensure that the product is suitable for the intended application purpose. Our recommendations are provided according to the best of our knowledge. However, they are not binding and exclude any form of liability for any kind of damage.