DICHTOMATIK

FREUDENBERG
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Technical data sheet in accordance with ASTM

Material
HNBR HN702704

black

cross linking: peroxidic

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Physical properties	nominal range	typical values	
Density ASTM D 1817	1.24 ±0.03	1.24	g/cm³
Hardness ASTM D 2240, Shore A	70 ±5	70	Shore
Tensile strength ASTM D 412	---	18.9	MPa
Elongation at break ASTM D 412	---	140	%
Low temperature test ASTM D 746, brittleness point	---	-43	°C
Low temperature test ASTM D 1329, TR10	---	-33	°C
Compression set ASTM D 395 B P.1, 168 h, 150 °C, 25 %	---	39	%
Compression set ASTM D395 B P.2, 72 h, 0 °C, 25 %	---	18	%
Compression set ASTM D 395 B P.2, 72 h, -20 °C, 25 %	---	44	%
Compression set DIN ISO 815, 24 h, 100 °C, 25 %	---	18	%
Ozone Resistance ASTM D 1149, 28 °C, 46 h, 200 pphm, 25% elongation	---	0	Rating

Temperature range -40°C to 140°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

Freudenberg

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Change after aging in Air: 72h/150°C		**Typ. values**		
		Base value	After aging	difference
Hardness (ASTM D 2240, Shore A)	Shore	70	72	2
Tensile strength (ASTM D 412)	MPa	18.9	19.5	3 %
Elongation at break (ASTM D 412)	%	140	130.2	-7 %

Change after aging in Air: 168h/150°C		**Typ. values**		
		Base value	After aging	difference
Hardness (ASTM D 2240, Shore A)	Shore	70	79.5	10
Tensile strength (ASTM D 412)	MPa	18.9	17.4	-8 %
Elongation at break (ASTM D 412)	%	140	95.8	-32 %

Change after aging in ASTM-Oil No. 2: 168h/100°C		**Typ. values**		
		Base value	After aging	difference
Hardness (ASTM D 2240, Shore A)	Shore	70	64	-6
volume change (ASTM D 471)	%		17	

Change after aging in IRM 902: 168h/100°C		**Typ. values**		
		Base value	After aging	difference
Hardness (ASTM D 2240, Shore A)	Shore	70	66.5	-4
volume change (ISO 1817)	%		9.9	

Change after aging in Pentane: 72h/23°C		**Typ. values**		
		Base value	After aging	difference
Hardness (ASTM D 2240, Shore A)	Shore	70	64.5	-6
volume change (ISO 1817)	%		12.9	

+ Air drying 168h / 40°C Volume/Volumen=-6,3 Hardness/Härte=+3,5

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No ASTM D2000 properties available

The given values are based on a limited number of tests on standard test pieces (2mm sheets). 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 provisons do not plan for something else.

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