



Technical data sheet in accordance with ASTM

Material NBR NB603412

black

cross linking: sulfur

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Physical properties		nominal range	typical values	
Density ASTM D297		1.23 ±0.02	1.23	g/cm³
Hardness ASTM D2240, Shore A		60 ±5	58	Shore
Tensile strength ASTM D412, C			14.2	MPa
Elongation at break ASTM D412, C			482	%
Ozone Resistance ASTM D1171, 40 °C, 72 h, 50	pphm, 20% (no crack)		0	Rating
Compression set ASTM D395, 22 h, 100 °C			8	%

Declarations of conformity

Temperature range

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.

-40°C to 100°C

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

Change after aging			Typ. values		
in Air: 70h/100°C		Base value	After aging	difference	
Hardness (ASTM D2240, Shore A)	Shore	58	68	10	
Tensile strength (ASTM D412)	MPa	14.2	15.2	7 %	
Elongation at break (ASTM D412)	%	482	371.1	-23 %	

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Change after aging			Typ. values	
in Fuel A: 70h/23°C		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	60	2
Tensile strength (ASTM D412)	MPa	14.2	13.3	-6 %
Elongation at break (ASTM D412) volume change (ASTM D471)	% %	482	457.9 -1	-5 %
Change after aging	74		Typ. values	
in Fuel B: 70h/23°C		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	52	-6
Tensile strength (ASTM D412)	MPa	14.2	8.2	-42 %
Elongation at break (ASTM D412)	%	482	308.5	-36 %
volume change (ASTM D471)	%		11	
Change after aging			Typ. values	
in IRM 901: 70h/100°C		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	65	7
Tensile strength (ASTM D412)	MPa	14.2	15.9	12 %
Elongation at break (ASTM D412)	%	482	380.8	-21 %
volume change (ASTM D471)	%		-10	
Change after aging			Typ. values	
in IRM 903: 70h/100°C		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	59	1
Tensile strength (ASTM D412)	MPa	14.2	13.9	-2 %
Elongation at break (ASTM D412)	%	482	385.6	-20 %
volume change (ASTM D471)	%		1	
Change after aging			Typ. values	
in Water: 70h/100°C		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	58	58	0
Tensile strength (ASTM D412)	MPa	14.2	12.3	-13 %
Elongation at break (ASTM D412)	%	482	366.3	-24 %
volume change (ASTM D471)	%		4	

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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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