

Material

70 NBR 150

Version
 22

Released on
 27.06.2016

General Data

 Colour: black
 Type of cross-linking: Peroxidic

Declaration of Compliance for - DVGW Gas is available upon request for selected articles. Please contact your known sales contact or send an email to info@fst.com.

Physical Properties

	Nominal Range	Typical Value	
Density DIN EN ISO 1183-1	1.17 ±0.02	1.17	g/cm³
Hardness DIN ISO 7619-1	70 ±5	72	Shore
Rebound resilience DIN 53512	>20	28	%
Modulus 100 %, DIN 53504, S2	>4	5.5	MPa
Tensile strength DIN 53504, S2	>15	18.5	MPa
Elongation at break DIN 53504, S2	>180	240	%
Compression set DIN ISO 815, B, 22 h, 100 °C	<20	12	%
Tear strength DIN 53515, Winkel		10	KN/m
Glass transition temperature ISO 11357-2, DSC		-24	°C

Temperature Range

static: -20 to 100 °C

This data sheet supersedes all previous versions. The content is subject to change without prior notice. The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufacturing 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 provisions do not plan for something else.

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Tested after ASTM D 2000: M 2 BG 7 14 A14 B14 B34 EA14 EF11 EF21 EO14 EO34

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 14	17.5
Elongation at break	%	min. 250	290
Hardness	Shore	70 ±5	70
A14 Air 70.00h/100.00°C			
Tensile strength	MPa		4
Elongation at break	%		-19
Hardness	Shore		4
B14 22.00h/100.00°C			
Compression set	%	25	7
B34 22.00h/100.00°C			
Compression set	%	25	8
EA14 Distilled Water 70.00h/100.00°C			
Volume change	%	±15	3
Hardness	Shore	±10	-1
EF11 Fuel A 70.00h/23.00°C			
Hardness	Shore	±10	5
Volume change	%	-5 to 10	0.2
Elongation at break	%	-25	-15
Tensile strength	MPa	-25	-20
EF21 Fuel B 70.00h/23.00°C			
Hardness	Shore	0 to -30	-12
Volume change	%	0 to 40	30
Tensile strength	MPa	-60	-55

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Elongation at break	%	-60		-50
EO14 IRM 901 70.00h/100.00°C				
Elongation at break	%	-45		-10
Volume change	%	-10 to 5		-3
Hardness	Shore	-5 to 10		3
Tensile strength	MPa	-25		-2
EO34 IRM 903 70.00h/100.00°C				
Tensile strength	MPa	-45		-7
Hardness	Shore	-10 to 5		-3
Volume change	%	0 to 25		10
Elongation at break	%	-45		-14

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