

Material

88 NBR 156

black
cross linking: peroxidic

revision index
10

revision date
1/16/2013

page 1 / 3

Physical properties	required	actual	
Density DIN EN ISO 1183	1.30 ±0.02	1.30	g/cm ³
Hardness DIN ISO 7619-1	88 ±5	88	Shore
Micro hardness DIN ISO 48 Verfahren M	88 +5/-8	87	IRHD
Rebound resilience DIN 53512	> 15	23	%
Modulus 100 %, DIN 53504, S2	9	13.4	MPa
Tensile strength DIN 53504, S2	> 12	15.7	MPa
Elongation at break DIN 53504, S2	> 85	112	%
Compression set DIN ISO 815, 22 h, 100 °C	< 25	15	%
Compression set DIN ISO 815, I, 70 h, 125 °C, 25 %	---	18	%
Low Temperature DIN 53765, DSC	---	-23	°C

Certificates	Country	Part	Remark	Expires	unlimited
3 A Sanitary					<input checked="" type="checkbox"/>
ADI Free					<input checked="" type="checkbox"/>
FDA			21 CFR 177.2600		<input checked="" type="checkbox"/>

Material

88 NBR 156

black
cross linking: peroxidic

revision index
10

revision date
1/16/2013

page 2 / 3

Tested after ASTM D 2000: M 7 BG 910 B14 EA14 EF11 EF21 EO14 EO34 F16

		required	actual
Hardness	Shore	90 ±5	88
Tensile strength	MPa	min. 10	17
Elongation at break	%	min. 100	110
Change after aging in Air 70h/100°C			
Hardness	Shore A	---	3
Tensile strength	%	---	2
Elongation at break	%	---	-2
B14 Compression set 22h/100°C	%	25	6
EA14 Change after aging in Distilled water 70h/100°C			
Hardness	Shore A	±10	-1
Volume	%	±15	4
EF11 Change after aging in Fuel A 70h/23°C			
Hardness	Shore A	±10	1
Tensile strength	%	-25	-2
Elongation at break	%	-25	-8
Volume	%	-5 to 10	1
EF21 Change after aging in Fuel B 70h/23°C			
Hardness	Shore A	0 to -30	-12
Tensile strength	%	-60	-47
Elongation at break	%	-60	-35
Volume	%	0 to 40	27
EO14 Change after aging in IRM 901 70h/100°C			
Hardness	Shore A	±5	1
Tensile strength	%	-25	16
Elongation at break	%	-45	2
Volume	%	-10 to 5	-1
EO34 Change after aging in IRM 903 70h/100°C			
Hardness	Shore A	-10 to 5	-6
Tensile strength	%	-45	7
Elongation at break	%	-45	8
Volume	%	0 to 25	11
F16 Low-temperature resistance after 3 min at -35 °C 3min./-35°C	°C	pass	pass

Material 88 NBR 156

black
cross linking: peroxidic

revision index

10

revision date

1/16/2013

page 3 / 3

Temperature-range: -25°C to 100 °C

This material corresponds in its consistence to the 21st recommendation of the federal health office.

The composition of the material is conform to the regulation (EG) no. 1935/ 2004.

This material corresponds in its composition to the requirements of the FDA- regulation 21 CFR 177.2600.

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 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.