

RUBBER FORMULA FCA6220



Technical Data Sheet

Highlights

Grey chlorobutyl rubber formulation
 Low extractables
 Nitrosamines and nitrosables free
 Very low odor
 Suitable for pharma application (E.P.)

Physical Properties

Density	1,51 Mg/m ³	ISO 2781
Hardness	66 Shore A 2"	ISO 868
Hardness	65 Shore A 10"	ISO 868
Hardness	71 Shore M	ASTM D2240
Elastic modulus 100%	4.3 MPa	ISO 37
Rupture strength	4.5 MPa	ISO 37
Elongation at rupture	330 %	ISO 37
Compression set 25%/22h/70°C	11 %	ISO 815
Tension set 50%/100h/50°C	5 %	

Chemical Properties

TEST MEDIUM	THICKNESS SWELL %/23°C		CHANGE OF SHORE M	
	3 days	8 weeks	3 days	8 weeks
Hexane	43	43	-25	-26
Toluene	44	45	-30	-32
Water	0	1	0	0
Water/Ethanol 1:1	1	2	0	-2
Ethanol	0	2	-1	-4
Isopropanol	1	2	-1	-3
Dimethyl ether (DME)	15	14	-16	-18
Ethyl acetate	6	6	-9	-9
Acetone	4	5	-6	-6
Methylene chloride	27	29	-20	-23
Perchloro ethylene	59	59	-35	-39
Petroleum Ether	50	50		
R-134 A	0	1		
Propane / Butane (15/85)	27	26		

Action Technology Belgium
 Industrielaan 37
 B-9320 Ereembodegem
 Belgium
 Tel: +32 53 650711
 Fax: +32 53 672074
 E-mail: sales@tekni-plex.be

Action Technology Italia SpA
 Via Alessandro Volta 76
 I-20083 Bonirolo Di Gaggiano (MI)
 Italia
 Tel: +39 02 9082931
 Fax: +39 02 90829333
 E-mail: info@actiontechnology.it
 Website : www.tekni-plex.eu

American Gasket & Rubber Co.
 119 East Commerce Drive
 Schaumburg, Illinois 60173
 USA
 Tel: +1 847 882 8333
 Fax: +1 847 882 9333
 E-mail: martin.harrison@tekni-plex.com

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Weight loss & Color

TEST MEDIUM	WEIGHT LOSS % 24h./23°C	COLOR (Gardner)
Hexane	3.1	<1
Ethanol	0.3	<1
Methylene chloride	3.3	<1

Regulatory Compliance

European pharmacopoeia 5.4, Chapter 3.2.9 (Type I)
Non-cytotoxic, ISO 10993-5
Phthalates free
Nitrosamines and nitrosables free
Heavy metals (Directive 94/62 CEE and CONEG)
PAH free
Substance halogenated free
Latex free
Cosmetic directive 76/768/CEE
BSE (Emea/410/01 rev.2)

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Action Technology Belgium

Industrielaan 37
B-9320 Erembodegem
Belgium
Tel: +32 53 650711
Fax: +32 53 672074
E-mail: sales@tekni-plex.be

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Italia
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119 East Commerce Drive
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USA
Tel: +1 847 882 8333
Fax: +1 847 882 9333
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