

RUBBER FORMULA FCA6320



Technical Data Sheet

Highlights

Grey FDA-milk and edible oils chlorobutyl rubber formulation
 Low extractables
 Very low odor
 No plasticizers
 Nitrosamines and nitrosables free
 Suitable for pharma application (E.P. and USP)

Physical Properties

Density	1,57 Mg/m ³	ISO 2781
Hardness	68 Shore A 2"	ISO 868
Hardness	67 Shore A 10"	ISO 868
Hardness	77 Shore M	ASTM D2240
Elastic modulus 100%	7.3 MPa	ISO 37
Rupture strength	9.2 MPa	ISO 37
Elongation at rupture	170 %	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	45	46	-25	-25
Toluene	46	47	-27	-27
Water	0	2	-1	-2
Water/Ethanol 1:1	1	2	-1	-2
Ethanol	1	2	0	-1
Isopropanol	0	1	0	-1
Dimethyl ether (DME)	17	17		
Ethyl acetate	7	7	-8	-8
Acetone	2	6	-4	-5
Methylene chloride	29	29	-19	-20
Perchloro ethylene	62	64	-35	-37
Petroleum Ether	53	54		
R-134 A	0	2		
Propane / Butane (15/85)	31	31		

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Weight loss & Color

TEST MEDIUM	WEIGHT LOSS % 24h./23°C	COLOR (Gardner)
Hexane	1.6	<1
Ethanol	0.2	<1
Methylene chloride	1.4	<1

Regulatory Compliance

European pharmacopoeia 5.4, Chapter 3.2.9 (Type I)
USP29-NF24, 2006 <381> physicochemical tests
Non-cytotoxic, ISO 10993-5 and USP 29-NF24, 2006 <87>
FDA Title 21, paragraph 177.2600 – milk and edible oils
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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