



Technical Data Sheet

Material

Butyl Rubber U133

Highlights

Black butyl rubber formulation, suitable for food application
Low permeability
No plasticizers
Nitrosamines and nitrosables free
Excellent for DME formulation
High modulus

Physical Properties

Density	1,22 Mg/m ³	ISO2781
Hardness	71 Shore A 10°	ISO 7619-1
Hardness	79 Shore M	ISO 7619-1
Elastic modulus 100%	5.5 MPa	ISO 37
Rupture strength	9.5 MPa	ISO 37
Elongation at rupture	330%	ISO 37
Compression set 25%/22h/70°C	15%	ISO 815
Tension set 50%/100h/50°C	8%	

Chemical Properties

TEST MEDIUM	THICKNESS SWELL %/23°C		CHANGE OF SHORE M	
	3 DAYS	8 WEEKS	3 DAYS	8 WEEKS
Hexane	33	34	-21	-23
Toluene	33	34	-25	-27
Water	0	1	0	-1
Water/Ethanol 1:1	0	1	0	-1
Ethanol	1	1	-1	-1
Dimethyl ether (DME)	11	12	-14	-17
Ethyl acetate	5	4	-11	-9
Acetone	3	2	-6	-5
Methylene chloride	22	21	-22	-21
Perchloro ethylene	48	48	-28	-30
Petroleum ether	42	41	-26	-28
R-134 A	0	3	-1	-7
Propane/Butane	22	21	-21	-21

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Weight loss & Color

TEST MEDIUM	WEIGHT LOSS % 24h/23°C	COLOR (Gardner)
Hexane	1.0	<1
Ethanol	0.3	<1
Methylene chloride	1.7	<1

Regulatory Compliance

FDA Title 21, paragraph 177.2600 (suitable only for aqueous foods)

Phthalates free

Heavy metals (Directive 94/62 CEE and CONEG)

Substance halogenated

Low permeability

No plasticizers

Nitrosamines and nitrosables free (Directive 93/11 CEE and EN 12868)

Latex free

BSE/TSE (Emea/410/01 rev.3)

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