

## RUBBER FORMULA BG7102



### Technical Data Sheet

#### Highlights

Black nitrile rubber formulation  
Low modulus  
Swell in alcohol

#### Physical Properties

Density	1,23 Mg/m <sup>3</sup>	ISO 2781
Hardness	64 Shore A 2"	ISO 868
Hardness	63 Shore A 10"	ISO 868
Hardness	69 Shore M	ASTM D2240
Elastic modulus 100%	4.2 MPa	ISO 37
Rupture strength	12 MPa	ISO 37
Elongation at rupture	290 %	ISO 37
Compression set 25%/22h/70°C	5 %	ISO 815
Tension set 50%/100h/50°C	3 %	

#### Chemical Properties

TEST MEDIUM	THICKNESS SWELL %/23°C		CHANGE OF SHORE M	
	3 days	8 weeks	3 days	8 weeks
Hexane	3	5	-2	-3
Toluene	30	29	-13	-13
Water	1	2	-1	-1
Water/Ethanol 1:1	2	3	-2	-3
Ethanol	3	3	-4	-3
Isopropanol	3	3	-3	-2
Dimethyl ether (DME)	18	16		
Ethyl acetate	27	28	-12	-12
Acetone	32	32	-13	-14
Methylene chloride	56	55	-43	-47
Perchloro ethylene	14	13	-9	-9
Petroleum Ether	2	5		
R-134 A	3	3		
Propane / Butane (15/85)	4	3		

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#### Weight loss & Color

TEST MEDIUM	WEIGHT LOSS % 24h./23°C	COLOR (Gardner)
Hexane	2.0	<1
Ethanol	2.1	<1
Methylene chloride	6.1	3

#### Regulatory Compliance

Phthalates free  
Heavy metals ( Directive 94/62 CEE and CONEG)  
Substance halogenated free  
BSE ( Emea/410/01 rev.2)

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