

Technical Specification

Nitrile Rubber, NBR

ID.
BF52

Colour
Black

Basic Properties	Units	Standard	Values
Specific Gravity	g/cm ³		1,35
Indentation Hardness	Shore A	ASTM D2240	65
International Hardness	IRHD	ASTM D1415 / ISO 48	
Tensile Strength	MPa	ASTM D412	7,0
Elongation at Break	%	ASTM D412	300
Tear	N/mm	ASTM D624 Die C	17
Abrasion Resistance	mm ³	DIN ISO 4649 (10 N)	
Abrasion Resistance	mm ³	DIN ISO 4649 (5 N)	
Working Temperatures	°C		-25 / 90

Heat Ageing in a Air Ventilated Oven	Cond. Temp.	Values
Standard ASTM D573	70 C 70 h	Hard. Inc. ShA 5 Tensile Inc. % ± 10 Elong. Inc. % -20

Compression Set	Cond. Temp.	Values
Standard ASTM D395 Method B	70 C 22 h	30
	100 C 22 h	% Max 50

Liquid Resistance: ASTM D471	Cond. Temp.	Values
IRM 903 Oil	100 C 70 h	Volume Inc. % 10
Fuel B	23 C 70 h	Volume Inc. % 25

Chemical Resistance	
Ozone	Moderate
Diluted Acids and Bases	Excellent
Concentrated Acids and Bases	Good
Hydrocarbons	Good



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