

NBR/001



Material Data Sheet

Compound

NBR/001

Rev.3A

Designation

NBR

Aug. 2012

Material type: Nitrile Butadiene Rubber 80 Shore A. Copolymer of acrylonitrile and butadiene.
Extraction tested by independent laboratory in accordance with FDA CFR21:177.2600 and for biological response according to USP Class VI.
Also complies with the requirements of 3-A 18-03 Sanitary Standards Class III.



Color: Black
Temperature Range: Min. -40°C Max. +100°C
Storage recommendation: According to ISO 2230

Physical Properties	Unit	Test method	Value
Hardness, Shore A	pts	D2240	83.00
Modulus at 100%	MPa	D412	9.29
Specific gravity		D297	1.29
Heat Resistance, 70h at 100°C			
Change in Hardness	pts	D573	5.00
Change in Volume	%	D573	-3.00
Compression set, Method B			
22h at 100°C	%	D395	9.00
Oil Resistance, ASTM Oil No.1 , 70h at 100°C			
Change in Hardness	pts	D471	5.00
Change in Volume	%	D471	-8.00
Oil Resistance, ASTM Oil IRM 903 , 70h at 100°C			
Change in Hardness	pts	D471	-1.00
Change in Volume	%	D471	3.00
Oil Resistance, Reference Fuel A , 70h at 23°C			
Change in Hardness	pts	D471	-2.00
Change in Volume	%	D471	2.00
Oil Resistance, Reference Fuel AB, 70h at 23°C			
Change in Hardness	pts	D471	-16.00
Change in Volume	%	D471	20.00

The results given in this datasheet are obtained on standard specimen following standard test procedures and are not comparable to finished products due to differences in the products profile. It is the customer's responsibility to evaluate parts prior to use in order to assure that parts will perform satisfactorily in their application.