


NBR/006				 - Part of Diploma PLC
Material Data Sheet	Compound	N8097F	Rev.2	
	Designation	NBR80	Mar 2022	

Material type: Nitrile Butadiene Rubber 80 Shore A. Sulphur cured.

Extraction tested by independent laboratory in accordance with FDA CFR21:177.2600

Conforming to 3A 18-03 Class. II

Conforming to GB 4806.11

In compliance with EU1935/2004

Color: Blue

Storage recommendation: According to ISO 2230

Physical Properties	Unit	Test method	Requirement	Actual
Hardness, Shore A	pts	ASTM D2240	80+/-5	84,3
Tensile strength	MPa	ASTM D412C	>17	17,7
Ultimate Elongation	%	ASTM D412 C	>300	330
Specific gravity		ASTM D1817		1,485

Compression set, Method B				
22h at 100°C	%	ASTM D395B	<30	23

Water Resistance, 168h at 70°C				
Change in Hardness	pts	ASTM D471	<-10	-3,9
Change in Volume	%	ASTM D471	<10	6,5

Fluid Resistance, Sulfuric acid 1% , 168h at 70°C				
Change in Volume	%	ASTM D471	<10	8

Heat Resistance, air 70h at 100°C				
Change in Hardness	pts	ASTM D573	<8	1,7
Change in Tensile strength	%	ASTM D573	<-25	6
Change in Ultimate Elongation	%	ASTM D573	<-40	-6

For FDA test of Migration, we refer to SGS report no. CT/2015/70588

For 3A test we refer to Cerisie report RP670-B-2021

For GB 4806.11, we refer to DPTC report FCM1823377