

Material : Nitrile Butadiene Rubber

Compound : N811F2

Low Temp (-50 to +125°C)

Revision date : 01/04/2018

Physical properties	nominal	actual	units
Hardness BS ISO 48, 23 °C	80-85	81	Shore A-2
Tensile strength BS ISO-37, 23 °C	> 102	172	Kg/Cm ²
Elongation at break BS ISO 37, 23 °C	> 125	220	%
Compression set BS ISO 37, 125 °C, 22 h	< 25	10.6	%
Air Ageing BS ISO 188, 125 °C, 70 h			
Hardness Change	<(+15)	+2	Points
Tensile Change	<(-25)	-3.2	%
Elongation Change	<(-50)	-15.5	%
Fluid Resistance, ASTM Oil-1 BS ISO 1817, 125 °C, 70 h			
Hardness Change	-10(Max)	+2	Points
Tensile Change	-20(Max)	-5.8	%
Elongation Change	-35(Max)	-18.5	%
Volume Change	-15 to +5	-3.1	%
Fluid Resistance, ASTM Oil-3 BS ISO 1817, 125 °C, 70 h			
Hardness Change	-10 To +5	-2	Points
Tensile Change	-35(Max)	-9.5	%
Elongation Change	-35(Max)	-19.6	%
Volume Change	+25(Max)	+5.8	%
Specific Gravity BS ISO 1183, 23 °C	---	1.271	Gm/cc
Ash Content 800°C, 2 Hrs	---	4.25	%
Low Temp Brittleness BS 903 A 13	Non Brittle at -50 °C	Non Brittle	---
T.R.10 Temp.	-25		°C