

Data Sheet: N90 LT

MATERIAL: NITRILE 90 SHORE LOW TEMPERATURE (-45°C)

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -45°C to 110°C

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	90 ±5	89
TENSILE STRENGTH, MPa	10	18.4
ELONGATION, %	100	151
SPECIFIC GRAVITY		1.306
HEAT AGEING 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS	±15	+2
TENSILE STRENGTH CHANGE %	-20	+5
ELONGATION CHANGE %	-40	+26
COMPRESSION SET		
PRESS CURE 12 mins @ 170°C		
POST CURE 1hr @ 120°C		
HEAT AGEING 22hrs @ 100°C	25	8
FLUID RESISTANCE, NO.1 OIL, 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS	-5/+15	+1
TENSILE STRENGTH CHANGE %	-25	+5
ELONGATION CHANGE %	-45	-15
VOLUME CHANGE %	-10/+5	-1
FLUID RESISTANCE, ASTM IRM 903 OIL IMMERSION, 70 hrs @ 100°C		
HARDNESS CHANGE, POINTS	0/-15	-11
TENSILE STRENGTH CHANGE %	-45	-4
ELONGATION CHANGE %	-45	-13
VOLUME CHANGE %	0/+35	+18
LOW TEMPERATURE RESISTANCE		
-40°C @ 3 Min		NON-BRITTLE

The above test results are based on test slabs / buttons. The results from the actual parts may be different.

Issue Date: 29.08.2016