

RUBBER TEST REPORT

COLOR : BLUE
MATERIAL : BN7024
DATE:
Press cure
Sheet : 170 °C 5 min
Button : 170 °C 10 min
Post cure
Sheet : 140 °C 1 Hr
Button : 140 °C 1 Hr
 Spec.

Original Properties

	Result
Hardness Shore A	70
Tensile strength (PSi)	1664
Elongation, %	455
Tear resistance kg-cm	42
Modulus at 100% (PSi)	543
Modulus at 200% (PSi)	993
Modulus at 300% (PSi)	1362
Specific Gravity	1.433

Oven Air(ASTM D865 A27) 70h/100°C

	Result
Change in hardness, points	2
Change in tensile strength %	1
Change in ultimate elongation %	-6
Change in volume %	-0.4

Compression set 22h/100°C

Result
13

Compression set (Button) 22h/125°C

Result
23

Compression set (Button) 70h/100°C

Result
20

ASTM oil 1(ASTM D471 EO16) 70h/100°C

	Result
Change in hardness, points	2
Change in tensile strength %	7
Change in ultimate elongation %	-9
Change in volume %	-4.4

ASTM IRM oil 903(ASTM D471 EO36) 70h/100°C

	Result
Change in hardness, points	-6
Change in tensile strength %	4
Change in ultimate elongation %	-3
Change in volume %	8.9

ASTM Fuel A (EF) 70h/23°C

	Result
Change in hardness, points	-2
Change in tensile strength %	-4
Change in ultimate elongation %	1
Change in volume %	2.4

ASTM Fuel B (EF) 70h/23°C

	Result
Change in hardness, points	-18
Change in tensile strength %	-38
Change in ultimate elongation %	-41
Change in volume %	32.9

ASTM Water Resistance (EA) 70h/100°C

	Result
Change in hardness, points	-2
Change in tensile strength %	3
Change in ultimate elongation %	0
Change in volume %	7.4