

RUBBER TEST REPORT

COLOR : BLACK
MATERIAL : BN7015
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	69
Tensile strength (PSi)	2600
Elongation, %	383
Tear resistance kg-cm	56
Modulus at 100% (PSi)	651
Modulus at 200% (PSi)	1488
Modulus at 300% (PSi)	2228
Specific Gravity	1.256

Oven Air(ASTM D865 A27) 70h/100°C

	Result
Change in hardness, points	1
Change in tensile strength %	5
Change in ultimate elongation %	-8
Change in volume %	-2

Compression set 22h/100°C

Result
12

Compression set (Button) 22h/125°C

Result
20

Compression set (Button) 70h/100°C

Result
20

ASTM oil 1(ASTM D471 EO16) 70h/100°C

	Result
Change in hardness, points	4
Change in tensile strength %	7
Change in ultimate elongation %	-8
Change in volume %	-7

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

	Result
Change in hardness, points	-3
Change in tensile strength %	7
Change in ultimate elongation %	0
Change in volume %	2

ASTM Fuel A (EF) 70h/23°C

	Result
Change in hardness, points	-2
Change in tensile strength %	4
Change in ultimate elongation %	-4
Change in volume %	0

ASTM Fuel B (EF) 70h/23°C

	Result
Change in hardness, points	-15
Change in tensile strength %	-33
Change in ultimate elongation %	-31
Change in volume %	23

ASTM Water Resistance (EA) 70h/100°C

	Result
Change in hardness, points	-6
Change in tensile strength %	2
Change in ultimate elongation %	-2
Change in volume %	8