

RUBBER TEST REPORT

COLOR :
MATERIAL :
DATE:

BLUE
 BN7026

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	71
Tensile strength (PSi)	1616
Elongation, %	446
Tear resistance kg-cm	42
Modulus at 100% (PSi)	560
Modulus at 200% (PSi)	990
Modulus at 300% (PSi)	1290
Specific Gravity	1.435

Oven Air (ASTM D865 A27) 70h/100°C

	Result
Change in hardness, points	1
Change in tensile strength %	2
Change in ultimate elongation %	-22
Change in volume %	0

Compression set 22h/100°C

Result
19

Compression set (button) 22h/125°C

Result
30

Compression set (button) 70h/100°C

Result
27

ASTM oil 1 (ASTM D471 EO16) 70h/100°C

	Result
Change in hardness, points	1
Change in tensile strength %	5
Change in ultimate elongation %	-16
Change in volume %	-3

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

	Result
Change in hardness, points	-7
Change in tensile strength %	-14
Change in ultimate elongation %	-10
Change in volume %	9

ASTM Fuel A (EF) 70h/23°C

	Result
Change in hardness, points	-2
Change in tensile strength %	-10
Change in ultimate elongation %	-13
Change in volume %	3

ASTM Fuel B (EF) 70h/23°C

	Result
Change in hardness, points	-13
Change in tensile strength %	-31
Change in ultimate elongation %	-37
Change in volume %	28

ASTM Water Resistance (EA) 70h/100°C

	Result
Change in hardness, points	0
Change in tensile strength %	7
Change in ultimate elongation %	-17
Change in volume %	5