

# Data Sheet: XNBR70

## MATERIAL: CARBOXYLATED NITRILE 70 SHORE

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -30°C to 150°C

SPECIFICATION: ASTM D2000 M5BG714 A14 B14 E014 E034

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	75
TENSILE STRENGTH, MPa	14	21.5
ELONGATION %	250	515
SPECIAL GRAVITY		1.178

### HEAT AGEING 70 hrs @ 100°C

HARDNESS CHANGE, POINTS	+15	+7
TENSILE STRENGTH CHANGE %	-20	+0.4
ELONGATION CHANGE %	-40	-37

### COMPRESSION SET

22 hrs @ 175°C, %	25	18
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### FLUID RESISTANCE, ASTM NO.1 OIL 70 hrs @ 100°C

HARDNESS CHANGE, POINTS	-5/+15	+3
TENSILE STRENGTH CHANGE %	-25	-15
ELONGATION CHANGE %	-45	-35
VOLUME CHANGE %	-10/+5	-2

### FLUID RESISTANCE, IRM 903 OIL 70 hrs @ 100°C

HARDNESS CHANGE PTS	0/-15	-3
TENSILE STRENGTH CHANGE %	-45	-36
ELONGATION CHANGE %	-45	-40
VOLUME CHANGE %	0/+35	+16

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

Issue Date: 27.05.2011