Data Sheet: N85 (Bonded Seals)

MATERIAL: NITRILE 85 SHORE FOR BONDED SEALS

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -35°C to 110°C

SPECIFICATION: ASTM D2000 M7BG814 A14 B34 EF11 EF21 EO14 EO34

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS SHORE A (Z)	D2240	75+/-5	75
TENSILE STRENGTH, MPa	D412	10	12.2
ELONGATION, %	D412	175	227
MODULUS @ 100% MPa			5.8
MODULUS @ 200% MPa			11.1
SPECIFIC GRAVITY	D297		1.89
A1-10 HEAT AGEING 70 hrs @ 250°C	D573		
HARDNESS CHANGE, POINTS		+10	+2
TENSILE STRENGTH CHANGE, %		-25	+9
ELONGATION CHANGE, %		-25	-9
VOLUME CHANGE, %			-3
B38 COMPRESSION SET, METHOD B	D395		
22 hrs @ 175°C %		50	18
EF31 FUEL RESISTANCE, FUEL C. 70 hrs @ 23°C			
HARDNESS CHANGE, POINTS	D471	+/-5	-4
TENSILE STRENGTH CHANGE, %	D471	-25	-4
ELONGATION CHANGE, %	D471	-20	+4
VOLUME CHANGE, %	D471	0/+10	+2.8
EO78 FUEL RESISTANCE, 101 OIL. 70 hrs @ 200°C			
HARDNESS CHANGE, POINTS	D471	-15/+5	-10
TENSILE STRENGTH CHANGE, %	D471	-40	-4
ELONGATION CHANGE, %	D471	-20	0
VOLUME CHANGE, %	D471	0/+15	+11.5

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

Issue Date: 12.03.2014

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