

NITRILE 70

TEST REPORT

A	COLOUR	BLACK		
B	OPERATING TEMP RANGE	(-) 30 TO (+) 120 DEG C		
C	COMPLYS TO	ASTM D2000 M2BG714 A14 B14 EA14 EO14 EO34 EF11 EF21 F17		
D	PHYSICAL PROPERTIES	PRESS CURE @ 170 DEG C X 10 MIN POST CURE @ 120 DEG C X 1 HOUR		
			<u>REQUIREMENTS</u>	<u>RESULTS</u>
		HARDNESS SHORE A	70 (+ OR - 5)	72
		TENSILE STRENGTH MPA	10	13.8
		ELONGATION %	250	407
		SPECIFIC GRAVITY		1.221
E	HEAT RESISTANCE	TESTED AT 100 DEG C FOR 70 HOURS		
		HARDNESS CHANGE (POINTS)	(+) OR (-) 15	(+)2
		TENSILE STRENGTH CHANGE %	(+) OR (-) 30	(+)4
		ELONGATION CHANGE %	(-)50	(-)11
F	COMPRESSION SET	CURING CONDITIONS PRESS CURE @ 170 DEG C X 12 MINS POST CURE @ 120 DEG C X 1 HOUR HEAT AGING @ 100 DEGC X 22 HOURS %	25	9
G	ASTM NO 1	OIL IMMERSION @ 100 DEG C X 70 HOURS		
		HARDNESS CHANGE (POINTS)	(-) 5 TO (+) 10	(+)2
		TENSILE STRENGTH CHANGE %	(-)25	(+)9
		ELONGATION STRENGTH CHANGE %	(-)45	(-)15
		VOLUME CHANGE %	(-)10 TO (+)5	(-)3
H	ASTM IRM 903	OIL IMMERSION @ 100 DEG C X 70 HOURS		
		HARDNESS CHANGE (POINTS)	(-)10 TO (+) 5	(-)10
		TENSILE STRENGTH CHANGE %	(-)45	(-)19
		ELONGATION STRENGTH CHANGE %	(-)45	(-)22
		VOLUME CHANGE %	0 TO (+)25	(+)17
I	WATER RESISTANCE	TESTS @ 100 DEG C X 70 HOURS		
		HARDNESS CHANGE (POINTS)	(+) OR (-)10	(-)6
		VOLUME CHANGE %	(+) OR (-)15	(+)15
J	FUEL A RESISTANCE	TESTS @ 23 DEG C X 70 HOURS		
		HARDNESS CHANGE (POINTS)	(+) OR (-)10	(-)2
		TENSILE STRENGTH CHANGE %	(-)25	(-)11
		ELONGATION STRENGTH CHANGE %	(-)25	(-)4
		VOLUME CHANGE %	(-)5 TO (+)10	(+)3
K	FUEL B RESISTANCE	TESTS @ 23 DEG C X 70 HOURS		
		HARDNESS CHANGE (POINTS)	0 TO (-)30	(-)1
		TENSILE STRENGTH CHANGE %	(-)60	(-)12
		ELONGATION STRENGTH CHANGE %	(-)60	(-)4
		VOLUME CHANGE %	0 TO (+)40	(+)3
L	LOW TEMP BRITTLENESS	TESTS @ (-)40 DEG C FOR 3 MINS		NON BRITTLE

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