

## NITRILE 70 EN549 GAS

### TEST REPORT

A	<b>COLOUR</b>	<b>BLACK</b>		
B	<b>OPERATING TEMP RANGE</b>	<b>(-) 30 TO (+) 120 DEG C</b>		
C	<b>COMPLYS TO</b>	<b>ASTM D2000 M3 CH714 A25 B34 EF31 EO16 EO36 F15 EN549 CLASSE TEMP B2 DVGW NG-5112AR0863</b>		
D	<b>PHYSICAL PROPERTIES</b>	<b>PRESS CURE @ 170 DEG C X 10 MIN POST CURE @ 120 DEG C X 1 HOUR</b>	<b>REQUIREMENTS</b>	<b>RESULTS</b>
		HARDNESS SHORE A	70 (+ OR - 5)	72
		TENSILE STRENGTH MPA	10	13.8
		ELONGATION %	250	407
		SPECIFIC GRAVITY		1.221
E	<b>HEAT RESISTANCE</b>	<b>TESTED AT 100 DEG C FOR 70 HOURS</b>		
		HARDNESS CHANGE (POINTS)	(+ OR -) 15	(+2)
		TENSILE STRENGTH CHANGE %	(+ OR -) 30	(+4)
		ELONGATION CHANGE %	(-)50	(-11)
F	<b>COMPRESSION SET</b>	<b>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 %</b>	25	9
G	<b>ASTM NO 1</b>	<b>OIL IMMERSION @ 100 DEG C X 70 HOURS</b>		
		HARDNESS CHANGE (POINTS)	(-) 5 TO (+) 10	(+2)
		TENSILE STRENGTH CHANGE %	(-)25	(+9)
		ELONGATION STRENGTH CHANGE %	(-)45	(-15)
		VOLUME CHANGE %	(-)10 TO (+)5	(-3)
H	<b>ASTM IRM 903</b>	<b>OIL IMMERSION @ 100 DEG C X 70 HOURS</b>		
		HARDNESS CHANGE (POINTS)	(-)10 TO (+) 5	(-)10
		TENSILE STRENGTH CHANGE %	(-)45	(-)19
		ELONGATION STRENGTH CHANGE %	(-)45	(-)22
		VOLUME CHANGE %	0 TO (+)25	(+17)
I	<b>WATER RESISTANCE</b>	<b>TESTS @ 100 DEG C X 70 HOURS</b>		
		HARDNESS CHANGE (POINTS)	(+ OR -)10	(-)6
		VOLUME CHANGE %	(+ OR -)15	(+15)
J	<b>FUEL RESISTANCE</b>	<b>TESTS @ 23 DEG C X 70 HOURS</b>		
		HARDNESS CHANGE (POINTS)	(+ OR -)10	(-)2
		TENSILE STRENGTH CHANGE %	(-)25	(-)11
		ELONGATION STRENGTH CHANGE %	(-)25	(-)4
		VOLUME CHANGE %	(-)5 TO (+)10	(+3)
L	<b>LOW TEMP BRITTLENESS</b>	<b>TESTS @ (-)40 DEG C FOR 3 MINS</b>		<b>NON BRITTLE</b>

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