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NITRILE 70 EN549 GAS

SPECIFICATION – ASTM D2000 M3 CH714 A25 B34 EF31 EO16 EO36 F15 EN549 CLASSE TEMP B2 DVGW NG-5112AR0863	Test	Spec
Operating Temperature Range		
-30 to +120ºC		
Physical Properties		
Press Cure at 170ºC for 10 mins		
Post Cure at 120ºC for 1 hr		
Hardness, shore A	72	70 +/-5
Tensile, strength, MPa	13.8	10
Elongation, %	407	250
Specific Gravity	1.221	
Heat Resistance at 100ºC for 70 hrs		
Hardness Change, points	+2	+/-15
Tensile Change, %	+4	+/-30
Elongation Change, %	-11	-50
Compression Set, 100ºC for 70 hrs		
Press Cure at 170ºC for 12 mins		
Post Cure at 120ºC for 1 hr		
Heat Ageing at 100ºC for 22 hrs	9	25
ASTM No.1 Oil Immersion at 100ºC for 70 hrs		
Hardness Change, points	+2	-5/+10
Tensile strength change, %	+9	-25
Elongation strength change, %	-15	-45
Volume Change, %	-3	-10/+5
ASTM IRM 903 Oil Immersion at 100ºC for 70 hrs		
Hardness Change, points	-10	-10/+5
Tensile change, %	-19	-45
Elongation change, %	-22	-45
Volume change, %	+17	0/+25

The above data is obtained through our own laboratory testing on slabs and buttons and als D2137

NITRILE 70 EN549 GAS - Cont.

Water Resistance, tests at 100ºC for 70 hrs		
Hardness change, points	-6	+/-10
Volume change %	+15	+/-15
Fuel Resistance, tests at 23ºC for 70 hrs		
Hardness Change, points	-2	+/-10
Tensile Change, %	-11	-25
Elongation Change, %	-4	-25
Volume change, %	+3	-5/+10
Low Temp brittleness, tests at -40 deg c for 3 mins	Non brittle	

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