



**MATERIAL DATA SHEET**

Material ref: N2247

Description: 70 duro nitrile/LOW TEMPERATURE

Typical Performance Properties

	Test <u>Method</u>	Unit of <u>Measure</u>	Nominal <u>Value</u>	Obtained <u>Value</u>
<b><u>Hardness</u></b>	ASTM D2240	Shore A	70+/-5	71
<b><u>Tensile Strength</u></b>	ASTM D412	N/mm2	12 min	14.3
<b><u>Ult. Elongation</u></b>	ASTM D412	%	250 min.	310
<b><u>Specific Gravity</u></b>	ASTM D1817	G/cm3	1.21+/-0.02	1.22
<b><u>Tear Resistance</u></b>	ASTM D624	N/mm	35 min	43
<b><u>Compression Set</u></b> 22hrs @ 125C	ASTM 395B	%	30 max	26
<b><u>Air Aging</u></b> <b><u>72hrs @ 125C</u></b>	ASTM D573			
Hardness Change		Shore A	+15max	+10
Tensile Change		%	0 to +30	+26
Elong. Change		%	-40 max	-33
Vol. Change		%	0 to -5	-3.9
<b><u>Oil Aging</u></b> <b><u>ASTM 1 Oil</u></b>	ASTM D471 72 hrs @ 125C			
Hardness Change		Shore A	0 to +15	+10
Tensile Change		%	0 to +40	+27
Elong. Change		%	0 to -40	-28
Vol. Change		%	0 to -10	-5.8
<b><u>Oil Aging</u></b> <b><u>ASTM 3 Oil</u></b>	ASTM D471 72 hrs @ 125C			
Hardness Change		Shore A	0 to -10	-4
Tensile Change		%	+/-15	+3
Elong. Change		%	0 to -40	-23
Vol. Change		%	0 to +20	+13.2
<b><u>Low Temperature</u></b> <b><u>Testing</u></b>				
Brittleness	ASTM D746	Degrees C		-37
TR10	ASTM D1329	Degrees C		-25.5
TR30	ASTM D1329	Degrees C		-24
<b><u>Rebound</u></b>	ISO 4662	%	30 min	37