

# Material Data Sheet

02/15/11

# 03A70004

Material: N70

Meet Spec.:	M2BG714A14B14EA14EF11EF21EO14EO34	Specification	Typical properties
<b>Original Properties:</b>			
	Hardness, Shore A	70±5	70
	Tensile Strength, psi	2031	2341
	Ultimate Elongation, %	250	307
	Tear Resistance, kg-cm		53
	Modulus at 100%		614
	Specific Gravity		1.238
<b>A14</b>	<b>Heat Resistance, ASTM D573: 70 hrs @ 100C</b>		
	Hardness Change, points	±15	+4
	Tensile Strength Change, %	±30	+3
	Elongation Change, %	-50	-29
	Volume Change, %		-0.8
<b>EA14</b>	<b>Water Resistance, ASTM D471: 70 hrs @100C</b>		
	Hardness Change, points	±10	-3
	Tensile Strength Change, %		-3
	Elongation Change, %		-17
	Volume Change, %	±15	+4.7
<b>EO14</b>	<b>Fluid Resistance, ASTM D471, IRM901 Oil, 70 hrs @ 100C</b>		
	Hardness Change, points	-5~+10	+8
	Tensile Strength Change, %	-25	+9
	Elongation Change, %	-45	-22
	Volume Change, %	-10~+5	-8.8
<b>EO34</b>	<b>Fluid Resistance, ASTM D471, IRM903 Oil, 70 hrs @ 100C</b>		
	Hardness Change, points	-10~+5	0
	Tensile Strength Change, %	-45	+5
	Elongation Change, %	-45	-17
	Volume Change, %	0~+25	+2.0
<b>EF11</b>	<b>Fuel A Resistance, ASTM D471, Reference Fuel A : 70 hrs @ 23C</b>		
	Hardness Change, points	±10	-3
	Tensile Strength Change, %	-25	-4
	Elongation Change, %	-25	-4
	Volume Change, %	-5~+10	+1.2
<b>EF21</b>	<b>Fuel A Resistance, ASTM D471, Reference Fuel B : 70 hrs @ 23C</b>		
	Hardness Change, points	-30~0	-17
	Tensile Strength Change, %	-60	-36
	Elongation Change, %	-60	-32
	Volume Change, %	0~+40	+23.7
<b>B14</b>	<b>Compression set: 22 hrs @ 100C</b>	(From test button)	10
<b>B</b>	<b>Compression set: 22 hrs @ 125C</b>	(From test button)	16
<b>B</b>	<b>Compression set: 70 hrs @ 100C</b>	(From test button)	14

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