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**TECHNICAL REPORT BN70**

**Purpose: To show conformance of Nitrile 70 Durometer to the requirements of  
 ASTM D2000 M2BG710 B14 EA14 EF11 EF21 EO14 E34 F17**

<u>Spec.</u>	<u>Physical Property</u>	<u>Requirements</u>	<u>Results</u>	<u>ASTM Test Method</u>
	ORIGINAL PROPERTIES:			
	Hardness Shore A Durometer	70 +/- 5	68	D2240
	Tensile Strength psi min	1450	1,940	D412
	Elongation % min	250	450	D412
Basic	HEAT RESISTANCE: (70HRS X 212°F)			D573
	Hardness change, pts Shore A	+/- 15	+8	
	Tensile strength change %	+/- 30	0	
	Elongation change, % max	-50	-27	
B14	COMPRESSION SET: (22HRS X 212°F)			D395
	% of original deflection max	25	3	Method B
EA 14	WATER RESISTANCE TEST: (70HRS X 212°F)			D47 1
	Hardness change pts., Shore A	+/- 10	-3	
	Volume change %	+/- 15	+11	
EF 11	FUEL RESISTANCE TEST : (70HRS X 73°F)	FUEL A		D471
	Hardness change pts., Shore A	+/- 10	-3	
	Tensile strength change, psi., max	-25	-13	
	Elongation change % max	-25	-10	
	Volume change %	-5 to 10	+1.8	
EF 21	FUEL RESISTANCE TEST: (70HRS X 73°F)	FUEL B		D471
	Hardness change pts., Shore A	0 to -30	-15	
	Tensile strength change, psil, max	-60	-35	
	Elongation change % max	-60	-24	
	Volume change %	0 to 40	+27	
EO14	OIL RESISTANCE TEST: (70HRS X 212°F)	ASTM NO 1 OIL		D471
	Hardness changem pts., Shore A	-5 to 10	+6	
	Tensile strength change, % max	-25	-4	
	Elongation change, % max	-45	-31	
	Volume change, % max	-10 to 5	-4.2	
EO34	OIL RESISTANCE TEST: (70HRS X 212°F)	ASTM NO. 3 OIL		D471
	Hardness changem pts., Shore A	-10 to 5	-9	
	Tensile strength change, % max	-45	-25	
	Elongation change, % max	-45	-26.8	
	Volume change, % max	0 to 25	+15.2	
F17	LOW TEMPERATURE BRITTLINESS			
	3 Minutes @ -40°C	Pass	Non-Brittle	D2137