

Data Sheet: EP70 PC WRAS

MATERIAL: EPDM 70 SHORE PEROXIDE CURED. WRAS
APPROVED. NSF61 / UL157 / COMPLIANT TO TO FDA / USP
CLASS VI STANDARDS
WRAS APPROVAL NUMBER 2209502 EXPIRY 30/09/2027

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -55°C to +150°C

SPECIFICATION: ASTM D2000 M4CA710 A25 B35 EA14 F17 Z1= Elongation 125% MIN

PHYSICAL PROPERTIES	TEST METHOD	REQUIRED	TEST RESULT
HARDNESS, SHORE A, PTS	ASTMD2240	70 +/-5	75
TENSILE STRENGTH, MIN, PSI	ASTMD412	1450	2328
ELONGATION, MIN, % (Z)	ASTMD412	150	190
TEAR RESISTANCE KGF/CM	ASTM D624		29
MODULUS @ 100%, PSI	ASTM D412		801
SPECIFIC GRAVITY			1.126

COMPRESSION SET

22 hrs @ 125°C, %, METHOD B	ASTMD395	70	13
22 hrs @ 150°C, %, METHOD B	ASTMD395	SLAB	19
70 hrs @ 100°C, %, METHOD B	ASTMD395	SLAB	15

HEAT AGING, 70 hrs @ 125°C

CHANGE IN HARDNESS, PTS	ASTMD573	+10	0
CHANGE IN TENSILE STRENGTH %	ASTMD573	-20	0
CHANGE IN ELONGATION %	ASTMD573	-40	-7
CHANGE IN VOLUME %			-0.8

HEAT AGING, 70 hrs @ 150°C

CHANGE IN HARDNESS, PTS	ASTMD573		+1
CHANGE IN TENSILE STRENGTH %	ASTMD573		-18
CHANGE IN ELONGATION %	ASTMD573		-18
CHANGE IN VOLUME %			0

WATER RESISTANCE, 70 hrs @ 100°C

CHANGE IN HARDNESS, MAX PTS	ASTMD471		-2
CHANGE IN TENSILE STRENGTH %	ASTMD471		-3
CHANGE IN ELONGATION, %	ASTMD471		+1
CHANGE IN VOLUME %	ASTMD471	+5	+1.3

FLUID RESISTANCE, DOT#3(CPC), 70 hrs @ 125°C

HARDNESS CHANGE, PTS,	ASTM D471		-6
TENSILE STRENGTH CHANGE, %	ASTM D471		-9
ELONGATION CHANGE, %	ASTM D471		-5

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VOLUME CHANGE, %	ASTM D471		+3.2
FLUID RESISTANCE, DOT#3(CPC), 70 hrs @ 150°C			
HARDNESS CHANGE, PTS,	ASTM D471		-8
TENSILE STRENGTH CHANGE, %	ASTM D471		-11
ELONGATION CHANGE, %	ASTM D471		-2
VOLUME CHANGE, %	ASTM D471		+3.6
LOW TEMPERATURE TEST			
NONBRITTLE, 3 MINS @ -40°C, METHOD A	ASTM D2137	PASS	PASS

The above test results are based on test slabs / buttons. The results from the actual parts may be different.

Issue Date: 018.05.2023