

# Data Sheet: EP70 WRAS

**MATERIAL: EPDM 70 SHORE WRAS APPROVED**  
KTW / NSF61 / UL157

**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	ASTMD624		29
MODULUS @ 100%, PSI	ASTMD412		801
SPECIFIC GRAVITY			1.126
<b>COMPRESSION SET</b>			
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
<b>HEAT AGING, 70 hrs @ 125°C</b>			
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
<b>HEAT AGING, 70 hrs @ 150°C</b>			
CHANGE IN HARDNESS, PTS	ASTMD573		+1
CHANGE IN TENSILE STRENGTH %	ASTMD573		-18
CHANGE IN ELONGATION %	ASTMD573		-18
CHANGE IN VOLUME %			0
<b>WATER RESISTANCE, 70 hrs @ 100°C</b>			
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
<b>FLUID RESISTANCE, DOT#3(CPC), 70 hrs @ 125°C</b>			
HARDNESS CHANGE, PTS,	ASTMD471		-6
TENSILE STRENGTH CHANGE, %	ASTMD471		-9
ELONGATION CHANGE, %	ASTMD471		-5
VOLUME CHANGE, %	ASTMD471		+3.2

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<b>FLUID RESISTANCE, DOT#3(CPC), 70 hrs @ 150°C</b>			
HARDNESS CHANGE, PTS,	ASTM D471		-8
TENSILE STRENGTH CHANGE, %	ASTM D471		-11
ELONGATION CHANGE, %	ASTM D471		-2
VOLUME CHANGE, %	ASTM D471		+3.6
<b>LOW TEMPERATURE TEST</b>			
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: 17.03.2016**