

Data Sheet: FKM75X

MATERIAL: FKM TYPE ETP-S / EXTREME 75±5 SHORE A

Developed for severe service applications, this compound has the broadest of any Fluoroelastomer. It fills the performance gap between normal Fluoroelastomers and Perfluoroelastomers. Very good resistance to strong bases, amines and polar solvents.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -25°C to +215°C continuous

PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS, SHORT A, PTS	ASTMD2240	76
TENSILE STRENGTH, MIN, MPa	ASTMD412	18.3
ELONGATION, MIN, %	ASTMD412	225
100% MODULUS, MPA	ASTMD412	7.9

COMPRESSION SET

70 hrs @ 200°C MAX, %	ASTMD395/B	34
-----------------------	------------	----

LOW TEMPERATURE FLEXIBILITY

TR-10	ASTMD1329	-9
-------	-----------	----

AIR AGING, 168 hrs @ 250°C

CHANGE IN HARDNESS, MAX PTS	ASTMD573	-1
CHANGE IN TENSILE STRENGTH, MAX, %	ASTMD573	-13
CHANGE IN ULTIMATE ELONGATION, MAX, %	ASTMD573	18
CHANGE IN 100% MODULUS, MPa	ASTMD573	-11

MEK IMMERSION, 168 hrs @ 23°C

CHANGE IN HARDNESS, MAX PTS	ASTMD471	-16
CHANGE IN TENSILE STRENGTH, MAX, %	ASTMD471	-45
CHANGE IN ULTIMATE ELONGATION, MAX, %	ASTMD471	-11
CHANGE IN VOLUME, %	ASTMD471	+21

POTASSIUM HYDROXIDE (30%) + WATER IMMERSION, 168 hrs @ 100°C

CHANGE IN HARDNESS, MAX PTS	ASTMD471	-1
CHANGE IN TENSILE STRENGTH, MAX, %	ASTMD471	-6
CHANGE IN ULTIMATE ELONGATION, MAX, %	ASTMD471	-2
CHANGE IN VOLUME, %	ASTMD471	+2

AXLE LUBRICANT + HIGH PH ADDITIVE (6%) IMMERSION, 168 hrs @ 150°C

CHANGE IN HARDNESS, MAX PTS	ASTMD471	0
CHANGE IN TENSILE STRENGTH, MAX, %	ASTMD471	-14
CHANGE IN ULTIMATE ELONGATION, MAX, %	ASTMD471	-4
CHANGE IN VOLUME, %	ASTMD471	+4

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

Issue Date: 03.02.2013