

Data Sheet: FKM75X FDA

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

Developed for severe service applications, this compound has the broadest fluid resistance of any other Fluoroelastomer. It complies with FDA regulation 21 CFR 177.2600 for contact with foodstuffs. Very good resistance to strong bases, amines and polar solvents.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -20°C to +210°C continuous

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS, SHORT A, PTS	ASTMD2240	75
TENSILE STRENGTH, MIN, MPa	ASTMD412	15.8
ELONGATION, MIN, %	ASTMD412	270
100% MODULUS, MPa	ASTMD412	5.2
COMPRESSION SET		
70 hrs @ 200°C MAX, %	ASTMD395/B	37
LOW TEMPERATURE FLEXIBILITY		
TR-10	ASTMD1329	-9
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.

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