

Data Sheet: V575 (FKM75)

MATERIAL: FLUOROCARBON 75 SHORE BISPHENOL CURED

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -20°C to +205°C

SPECIFICATION: ASTM D2000 M2HK810 A1-10 B38 EF31 EO78 EO88 F14 Z1
Z1=75±5 SHORE A

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHOREA	ASTMD 2240-05	75±5	77
TENSILE STRENGTH, PSI (MPa)	ASTMD412-06A	1450 (10) (MIN)	2003 (13.81)
ELONGATION, %	ASTMD412-06A	150 (MIN)	202
MODULUS AT 100%, PSI (MPa)	ASTMD412-06A		935(6.45)
SPECIFIC GRAVITY, g/cm ³			1.84

HEAT AGE, 70 hrs @ 250°C

HARDNESS CHANGE, PTS	ASTM D573-04	+10 (MAX)	+2
TENSILE STRENGTH CHANGE, %	ASTM D573-04	-25 (MAX)	+6
ELONGATION CHANGE, %	ASTM D573-04	-25 (MAX)	-7
WEIGHT CHANGE, %			-1.8

B38 COMPRESSION SET

22 hrs @ 200°C, METHOD B	ASTM D395-14	50% (PLIED) (MAX)	12.1
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EF31 ASTM FUEL C RESISTANCE, 70 hrs @ 23°C

HARDNESS CHANGE, PTS	ASTM D471-12A	±5	-1
TENSILE STRENGTH CHANGE, %	ASTM D471-12A	-25 (MAX)	-8
ELONGATION CHANGE, %	ASTM D471-12A	-20 (MAX)	-3
VOLUME CHANGE, %	ASTM D471-12A	0~+10	+3.0

EO78 ASTM No. 101 OIL, 70 hrs @ 200°C

HARDNESS CHANGE, PTS	ASTM D471-12A	-15~+5	-6
TENSILE STRENGTH CHANGE, %	ASTM D471-12A	-40 (MAX)	-9
ELONGATION CHANGE, %	ASTM D471-12A	-20 (MAX)	+2
VOLUME CHANGE, %	ASTM D471-12A	0~+15	+9.4

EO88 HATCO 7700 OIL, 70 hrs @ 200°C

HARDNESS CHANGE, PTS	ASTM D471-12A	-15+5	-10
TENSILE STRENGTH CHANGE, %	ASTM D471-12A	-40 (MAX)	-12
ELONGATION CHANGE, %	ASTM D471-12A	-20 (MAX)	+2
VOLUME CHANGE, %	ASTM D471-12A	+25 (MAX)	+15.7

PHYSICAL PROPERTIES

TEST METHOD

REQUIREMENT

TEST RESULT

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LOW-TEMPERATURE BRITTLENESS POINT TEST, 3 MIN AT -18°C

SAMPLE TYPE: T-50

ASTM D471-12A

NO CRACK

PASS

COOLANT: ISOPROPYL ALCOHOL

BRITTLENESS TEMPERATURE TO NEAREST 1°C

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

Issue Date: 18.05.2023