

COMPOUND: 9974

POLYMER: FKM

DESCRIPTION: 75a Black – Aerospace Grade Designed to Meet AMS7410

Property		ASTM Method	Specification Limits	Typical Values	Units
Physical Properties (AS568-214 O-ring)	Hardness	D-2240	70 – 80	78	Shore A
	Specific Gravity	D-792	--	1.87	
	Tensile	D-1414	1300 (8.96) min.	1840	psi (MPa)
	Elongation	D-1414	120 min.	151	%
	M100	D-1414	--	297	psi (MPa)
Compression Set (AS568-214 O-ring)	22 Hrs @ 392°F (200°C)	D-395B	20 max.	12.1	%
	336 Hrs @ 392°F (200°C)		56 max.	54.5	%
Heat Aging 70 Hrs @ 518°F (270°C) Air	Hardness Change	D-573	-10 to +5	+1	Pts. Shore A
	Tensile Change		-50 max.	-13.4	%
	Elongation Change		-20 max.	+74.4	%
	Weight Loss		-10 max.	-6.9	%
Immersion 70 Hrs @ 73°F (23°C) ASTM Ref. Fuel B	Hardness Change	D-471	-10 max.	-3	Pts. Shore A
	Tensile Change		-35 max.	+27.0	%
	Elongation Change		-20 max.	-10.3	%
	Volume Change		+1 to +10	+5.9	%
Immersion 70 Hrs @ 392°F (200°C) AMS3085 (Reference Oil 300)	Hardness Change	D-471	-10 max.	-2	Pts. Shore A
	Tensile Change		-30 max.	-9.2	%
	Elongation Change		-20 max.	+3.3	%
	Volume Change		0 to +10	+7.9	%
	Compression set 70 Hrs @ 392°F (200°C)		20 max.	15.2	%
	Compression set 336 Hrs @ 392°F (200°C)		35 max.	32.4	%
Immersion 70 Hrs @ 275°F (135°C)	Hardness Change	D-471	-10 max.	-3	Pts. Shore A
	Tensile Change		-30 max.	-12.5	%

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Property		ASTM Method	Specification Limits	Typical Values	Units
<u>MIL-PRF-83282</u>	Elongation Change		-20 max.	-5.9	%
	Volume Change		0 to +10	+3.3	%
	Compression set 70 Hrs @ 275°F (135°C)		20 max.	12.1	%
	Compression set 336 Hrs @ 275°F (135°C)		35 max.	12.5	%
Immersion 70 Hrs @ 275°F (135°C) <u>MIL-PRF-87257</u>	Hardness Change	D-471	-10 max.	-2	Pts. Shore A
	Tensile Change		-30 max.	-8.8	%
	Elongation Change		-20 max.	-1.1	%
	Volume Change		0 to +10	+3	%
	Compression set 70 Hrs @ 275°F (135°C)		20 max.	12.5	%
	Compression set 336 Hrs @ 275°F (135°C)		35 max.	12.1	%
Immersion 70 Hrs @ 275°F (135°C) <u>MIL-PRF-5606</u>	Hardness Change	D-471	-10 max.	-4	Pts. Shore A
	Tensile Change		-30 max.	-3.0	%
	Elongation Change		-20 max.	+2.2	%
	Volume Change		0 to +10	+1.5	%
	Compression set 70 Hrs @ 275°F (135°C)		20 max.	11.8	%
	Compression set 336 Hrs @ 275°F (135°C)		35 max.	12.5	%
TR-10			-47.0 (-43.9) max.	-49.7 (-45.4)	°F (°C)

Rev. None – 2024-04 BF