

COMPOUND: 9973

POLYMER: FKM

DESCRIPTION: 75a Black – Aerospace Grade Designed to Meet AMS7379

Property	ASTM Method	Specification Limits	Typical Values	Units	
Physical Properties (AS568-214 O-ring)	Hardness	D-2240	70 – 80	75	Shore A
	Specific Gravity	D-792	--	1.802	
	Tensile	D-412	1300 (8.96) min.	1344 (9.27)	psi (MPa)
	Elongation	D-412	120 min.	145	%
	M100	D-412	--	817 (5.63)	psi (MPa)
Compression Set (AS568-214 O-ring)	22 Hrs @ 392°F (200°C)	D-395B	20 max.	8.3	%
	336 Hrs @ 392°F (200°C)		55 max.	50.0	%
Heat Aging 70 Hrs @ 518°F (270°C) Air	Hardness Change	D-573	-10 to +5	+5	Pts. Shore A
	Tensile Change		-45 max.	-42.8	%
	Elongation Change		-10 max.	+2.9	%
	Weight Loss		-10 max.	-5.6	%
Immersion 70 Hrs @ 73°F (23°C) <u>ASTM Ref. Fuel B</u>	Hardness Change	D-471	-10 max.	+1	Pts. Shore A
	Tensile Change		-35 max.	-25.5	%
	Elongation Change		-20 max.	-1.3	%
	Volume Change		+1 to +10	+4.8	%
Immersion 70 Hrs @ 392°F (200°C) <u>AMS3085 Synthetic Lubricant</u>	Hardness Change	D-471	-10 max.	+4	Pts. Shore A
	Tensile Change		-30 max.	-12.7	%
	Elongation Change		-20 max.	-4.7	%
	Volume Change		0 to +10	+8.3	%
	Compression set 70 Hrs @ 392°F (200°C)		25 max.	14.3	%
	Compression set 336 Hrs @ 392°F (200°C)		55 max.	41.7	%
Immersion 70 Hrs @ 275°F (135°C)	Hardness Change	D-471	-7 max.	+3	Pts. Shore A
	Tensile Change		-25 max.	-13.2	%

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Property		ASTM Method	Specification Limits	Typical Values	Units
<u>MIL-PRF-83282</u>	Elongation Change		-15 max.	-6.1	%
	Volume Change		+6 max	+3.8	%
	Compression set 70 Hrs @ 275°F (135°C)		20 max.	17.1	%
	Compression set 336 Hrs @ 275°F (135°C)		35 max.	11.4	%
TR-10			-37 (-38.3) max.	-42 (-41.1)	°F (°C)
Glass Transition	DSC Inflection Point	ASTM D7426	-40 (-40) max.	-41 (-40.6)	°F (°C)

Rev. None – 2023-04 BF