GALLAGHER
Fluid Seals, Inc.
The Seal Specialist

TECHNICAL REPORT
AS-568 FKM 90A MIL-SPEC O-RING

GENERAL PROPERTIES

GFS FKM 90A Mil-Spec is an AMS-7259 (M83248/2) certified, 90-Durometer High Performance Black FKM O-ring material. Compared to the more widely used 75A durometer version of this material, GFS FKM 90A can be utilized for higher pressure applications that would cause a softer material to extrude and fail. This material has a broad spectrum of excellent resistance to a variety of chemicals and performs well at high temperatures.

MATERIAL SPEC. NO. / REV/ DATE 5612A		SPECIFICATION / LIMITS	TEST DATE	QTY. TESTED	SUPPLIER TEST RESULTS (DATA)	OK	NOT OK
	Original Properties						
D1415	Hardness, IRHD, pts	86 / 93	1/20/22	5	**89**	√	
D412	Tensile Strength, Mpa	11 min	1/20/22	3	**18**	√	
D412	Elongation, %	100 min	1/20/22	3	**163**	√	
D624	Tear Strength, Die B, N	35 min	1/20/22	3	**67**	√	
D297	Specific Gravity	Report	1/20/22	1	**1.85**	√	
	Heat Resistance	**70h @ 250°C**					
D573	Duro Change, IRHD, pts	-6 to + 6	1/24/22	5	**+2**	√	
	Elongation Change, %	-20 max	1/24/22	3	**-20**	√	
	Weight Loss, %	6 max	1/24/22	3	**2**	√	
	Compression Set	**22h @ 200°C**					
D395	% Original Deflection, Method B	20 max	1/26/22	2	**16**	√	
		336h @ 200°C					
D395	% Original Deflection, Method B	55 max	1/28/22	2	**32**	√	
	Low Temp Properties	**-15°C or colder**					
D1329	TR-10	-15	1/28/22	3	**-17**	√	
	Fluid Resistance						
	Liquid B	**70h @ 40°C**					
D471	Volume Change, %	0 to +7	1/24/22	3	**+4**	√	
	Liquid 101	**70h @ 150°C**					
D471	Duro Change, IRHD, pts	-10 max	1/24/22	5	**-8**	√	
	Volume Change, %	0 to +10	1/24/22	3	**+6**	√	

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