



WRISTON ELASTOMERS PRIVATE LIMITED

No. D-3, Industrial Estate, Mogappair East, Chennai - 600 037.

Ph: +91 44 26560790, email : info@wriston.co.in, website : www.wriston.co.in

Compound Quality Check Memo

Compound Reference : FKM75/BD	Part no: F01167/68,F01056,F01253-XX	Batch Reference :	Sample Batch	Cust Spec : ASTM D 2000 M2HK707 Z1Z2Z3Z4Z5
Base Polymer : FKM	Part name: O-ring	Batch Date :	18-03-2016	Z1-Hardness 75 +/- 5, Z2-Color Brown, Z3- Compression Set 70 Hrs @ 200 C, Max 40 %, Z4- Biodiesel Immersion for 1000 Hrs @ 125C, Z5 - TR10 -25 C or less

No.	Parameter	Standard Reference	Unit of Measure	Testing Methodology	Specification	Lower Limit	Upper Limit	Observation	Status	Remarks
1	Color				Brown			Brown	OK	
2	Hardness	ASTM D676	Shore A		75+/- 5	70	80	74/75	OK	
3	Tensile strength	ASTM D412	Kg/cm ²		Min 70	70		107.35	OK	
4	Elongation at break	ASTM D412	%		Min 175	175		200	OK	
5	Compression set	ASTM D395B	%	70 hours @ 200 deg C	Max 40		40	32.56	OK	
6	Fluid Resistance B100 Diesel	ASTM D471		1000 hours @ 125 deg C with fuel changes every 168 hrs						
	Change in Hardness				-10 to +10	-10	10	-8	OK	
	Change in Tensile strength		%		Max -25		-25	-21.43	OK	
	Change in Elongation		%		Max -40		-40	+18.18	OK	
	Change in Volume		%		Max +10		10	+4.8	OK	
	Compression set (3.53 C/S Oring)		%		Max 50		50	19.35	OK	
	Surface Condition on 180° Bend				No Cracking			No Cracking	OK	
7	Fluid Resistance B20 Diesel	ASTM D471		1000 hours @ 125 deg C with fuel changes every 168 hrs						
	Change in Hardness				-10 to +10	-10	10	-5.5	OK	



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Sample Batch

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Base Polymer : FKM

Part name: O-ring

Batch Date :

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Z1-Hardness 75 +/- 5, Z2-Color Brown, Z3- Compression Set 70 Hrs @ 200 C, Max 40 %, Z4- Biodiesel Immersion for 1000 Hrs @ 125C, Z5 - TR10 -25 C or less

No.	Parameter	Standard Reference	Unit of Measure	Testing Methodology	Specification	Lower Limit	Upper Limit	Observation	Status	Remarks
	Change in Tensile strength		%		Max -25		-25	-11.5	OK	
	Change in Elongation		%		Max -40		-40	+25	OK	
	Change in Volume		%		Max +10		10	+4.03	OK	
	Compression set (3.53 C/S Oring)		%		Max 50		50	16.12	OK	
	Surface Condition on 180° Bend				No Cracking			No Cracking	OK	
8	Retraction at Lower Temp	ASTM D1329		TR10	Min -25°C			-26°C	OK	
9	Specific Gravity				2.05 to 2.10			2.0654	OK	
10	Ash Content	ASTM D297 (Item 35)	%					26.14	OK	

Quality Inspector's Remarks:

Result: PASS

For Wriston Elastomers Private Limited

Authorised Signatory