SOGIANT OIL SEAL INDUSTRIAL CO.,LTD.

Test Report

Date:2023.10.19

Material : KF10173A

Spec. ASTM D2000 M2HK710A1-10B37B38EF31EO78Z:HD75±5

Sheet 150*150*2mm Press Cure:170℃ * 10min Post Cure:235℃ * 24hr

Test Item	Test Methods	Unit	Remark	Min	Max	Result
Durometer Hardness (1sec)	ASTM D2240 Type A	*	Z	70.0	80.0	75.3
Tensile strength(psi)	ASTM D412 Die C	Psi		1450		1940
Elongation at Break	ASTM D412 Die C	%		175		264
Tear resistance Die C	ASTM D624 Die C	Kgf/cm				33.9
Modulus at 100 %	ASTM D412 Die C	Psi				845
Modulus at 200 %	ASTM D412 Die C	Psi				1680
Specific Gravity						2.198
A1-10 Heat Resistance	ASTM D573 70hr@250℃			Spec.		
Hardness Change(Shore A),max		Point		+10		+2.2
Tensile Strength Change,max		%		-25		-2
Elongation Change,max		%		-25		-6
Volume Change		%				-2.6
Heat Resistance	ASTM D573 70hr@275℃					
Hardness Change(Shore A),max		Point				+3.0
Tensile Strength Change,max		%				-29
Elongation Change,max		%				+6
Volume Change		%				-5.7
EO78 Fluid Resistance	ASTM D471 70hr@200℃	Servce Liquid#101		Spec.		
Hardness Change(Shore A),max		Point		-15~+5		-8.9
Tensile Strength Change,max		%		-40		-25
Elongation Change,max		%		-20		+5
Volume Change		%		0~+15		+10.7
Fluid Resistance	ASTM D471 70hr@200℃	Mobil Jet Oil II(Mobil)				
Hardness Change(Shore A),max		Point				-10.5
Tensile Strength Change,max		%				-20
Elongation Change,max		%				+3
Volume Change		%				+13.7
EF31 Fluid Resistance	ASTM D471 70hr@23℃			Spec.		
	Fuel C(50%IsoOctane+50%Toluene)					
Hardness Change(Shore A),max		Point		±5		-4.2
Tensile Strength Change,max		%		-25		-14
Elongation Change,max		%		-20		+6
Volume Change		%		0~+10		+3.5
B37 Compression Set	ASTM D395 22hr@175℃	% plied		50		17
B38 Compression Set	ASTM D395 22hr@200℃	% plied		50		19