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MATERIALS TEST REPORT

S5009 (SILICONE 50 SH WHITE) COMPOUND

ASTM D2000 M5GE 506 A19 B37 EO16 EO36 F19

Press Cure

Post Cure

Sheet : 5min 175°C

Sheet : 4 hrs 200°C

Button : 10 min 175°C

Button : 4 hrs 200°C

ORIGINAL PROPERTIES	SPECIFICATION	TEST RESULT	ASTM TEST METHOD	JUDGE
HARDNESS SHORE A	50°±5	53	D2240	OK
TENSILE STRENGTH, MPA, MIN	≥6	8.03	D412	OK
ULTIMATE ELONGATION, %, MIN	≥250	482.73	D412	OK
SPECIFIC GRAVITY (g/cm ³)		1.16	D297	OK
HEAT RESISTANCE 70 H . AT 225°C (A19)			D573	
CHANGE IN HARDNESS, POINTS	+10	2		OK
CHANGE IN TENSILES STRENGTH, %	-25	-20.05		OK
CHANGE IN ULTIMATE ELONGATION,MAX %	-30	-26.18		OK
COMPRESSION SET, MAX, 22H AT 175°C (B37)	≤25	22.95	D395	OK
FLUID RESISTANCE NO.1 OIL, 70H AT 150°C (EO16)			D471	
CHANGE IN HARDNESS, POINTS	0~-15	-6		OK
CHANGE IN TENSILES STRENGTH, MAX %	-20	-19.79		OK
CHANGE IN ULTIMATE ELONGATION,MAX %	-20	-18.26		OK
CHANGE IN VOLUME %	0~+10	5.01		OK
FLUID RESISTANCE NO.3 OIL, 70H AT 150°C (EO36)			D471	
CHANGE IN HARDNESS, POINTS	-30	-20		OK
CHANGE IN VOLUME %	+60	51.6		OK
LOW-TEMPERATURE BRITTLENESS NONBRITTLE				
AFTER 3MIN AT -55°C (F19)	NONBRITTLE	PASS	D2137	OK

Remark:

1. The data are based on testing slabs I buttons and are for reference purpose only..
2. Our compound can meet above -mentioned ASTM 2000 Spec.
3. This information is, to the best of our knowledge, accurate reliable to the date indicated.
4. The above mentioned data have been obtained by tests we consider as reliable, We don't assure that - the same results can be obtained other laboratories, using different conditions by the preparation and -evaluation of the samples.

Approved By:		Checked By:	Yunli Tu	Tested By:	Jianjun Zhu
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