

Test Report

NO: 110816002

Material: SILICONE70 YELLOW

Compound Number: SI704007 (S4162)

ASTMSPEC: ASTM D2000 M7GE 705 A19 B37 EA14 EO16 EO36 G11 F19

TEST DATE: 2011.07.16

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Original Properties:		Required	Result
Hardness, Shore A, ASTM D2240		70±5	72
Tensile Strength, ASTM D412, psi, Min		725	1099
Elongation, ASTM D412, %, Min		150	309
A19	Heat resistance, Test Method D 573, 70 h at 225°C		
	Change in hardness, max, points	+10	+6
	Change in tensile strength, max, %	-25	-13.37
	Change in ultimate elongation, max, %	-30	-29.8
B37	Compression set, Test Methods D 395, Method B, max, %, 22 h at 175°C	30	21.14
EA14	Water resistance, Test Method D 471, 70 h at 100°C,		
	Change in hardness, points	±5	+2
	Change in volume, %	±5	+0.79
EO16	Fluid resistance Test Method D 471, No. 1 Oil(IRM #1), 70 h at 150°C		
	Change in volume, %	0 to +15	+4.24
	Change in hardness, max, points	0 to -15	-3
	Change in ultimate elongation, max, %	-20	-17.15
	Change in tensile strength, max, %	-20	+3.82
EO36	Fluid resistance Test Method D 471, No. 3 Oil(IRM #3), 70 h at 150°C		



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		Required	Result
	Change in volume, %	+60	+37.32
	Change in hardness, max, points	-40	-27
G11	Tear resistance, Test Method D 624, min, kN/m	9	16.70
F19	Low-temperature resistance, Test Methods D 2137, Method A, 9.3.2, nonbrittle after 3 min at -55°C	nonbrittle	pass

Please note the above test results are obtained from test slabs/buttons, not actual parts.

Jean Deng