

LIST OF MODELING MATERIALS AVAILABLE AT THE SAL

With Mixing Ratios (by weight).

COMPOSITON AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
1	STYCAST 2741LV (8)	15LV (2)	Ecco.FA-A (1)	
2	STYCAST 2741LV (20)	15LV (10)	Ecco.FA-A (3)	
3	STYCAST 2741LV (20)	15LV (10)	Ecco.SI (3)	
4	STYCAST 2741LV (8)	15LV (2)	Ecco.SI (1)	
5	STYCAST 2741LV (5)	15LV (5)	Ecco.FA-A (1)	
6	STYCAST 2741LV (5)	15LV (5)	Ecco.SI (1)	
7	STYCAST 2741LV (1)	15LV (1)		
8	STYCAST 2741LV (4)	15LV (1)		
9	STYCAST 2741LV (11)	15LV (11)	SILICONE 3120 (10)	Cat.S (1)
10	STYCAST 2741LV (11)	15LV (11)	SILICONE 170A (10)	SILICONE 170B (1)
11	STYCAST 2741LV (3)	15LV (3)	SYLGARD 184 (1)	
12	STYCAST 2741LV (4)	15LV (4)	SYLGARD 184 (1)	
13	STYCAST 2741LV (5)	15LV (5)	SYLGARD 184 (1)	
14	STYCAST 2741LV (10)	15LV (5)	SYLGARD 184 (3)	

Table 1

COMPOSITION AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
15	STYCAST 2741LV (4)	15LV (2)	SYLGARD 184 (1)	
16	STYCAST 2741LV (14)	15LV (7)	SYLGARD 184 (3)	
17	STYCAST 2741LV (16)	15LV (8)	SYLGARD 184 (3)	
18	STYCAST 2741LV (20)	15LV (10)	SYLGARD 184 (3)	
19	STYCAST 3180A (10)	3180B (20)	SYLGARD 184 (3)	
20	STYCAST 3180A (20)	3180B (10)	SYLGARD 184 (3)	
21	STYCAST 3180A (15)	3180B (5)	SYLGARD 184 (3)	
22	ECCOGEL 1265A (2)	2741LV (1)	15LV (1)	
23	ECCOGEL 1265A (3)	2741LV (2)	15LV (1)	
24	ECCOGEL 1265A (3)	2741LV (4)	15LV (2)	
25	ECCOGEL 1265A (1)	2741LV (2)	15LV (1)	
26	ECCOGEL 1265A (6)	2741LV (2)	15LV (1)	
27	SYLGARD 184 (100)	Cat (10)	Ecco. SI (11)	
28	STYCAST 2651MM (82)	Cat.9 (5)		
29	STYCAST 2058A (1209)	2058B (100)		
30	SILICONE 170A (5)	170B (5)	Ecco. SI (1)	

1 cont.

COMPOSITION AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
31	STYCST 2850MT (84)	24LV (4)	Ecco. SI (1.4)	
32	STYCST 2850MT (63)	24LV (3)	Ecco. SI (1.4)	
33	SILICONE 3120 (15)	Cat. S (1)		
34	SILICONE 3120 (75)	Cat. S (5)	Ecco. SI (8)	
35	SYLGARD 184 (10)	Cat. (1)		
36	SILICONE 3112 (100)	Cat.S (10)	Ecco. FA-A (11)	
37	SYLGARD 182 (10)	Cat.D (1)		
38	SILICONE 3112 (10)	Cat.S (1)		
39	SILICONE 3112 (15)	Cat.S (1)		
40	SILICONE 3112 (20)	Cat.S (1)		
41	SILICONE 3112 (25)	Cat.S (1)		
42	SILICONE 3112 (30)	Cat.S (1)		
43	SYLGARD 182 (100)	Cat.D (10)	Ecco. FA-A (11)	
44	SYLGARD 186 (10)	Cat.D (1)		
45	SYLGARD 186 (100)	Cat.D (10)	Ecco. FA-A (11)	

1 cont.

COMPOSITION AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
46	SYLGARD 182 (20)	Cat.D (1)		
47	SYLGARD 182 (15)	Cat.D (1)		
48	SYLGARD 182 (5)	Cat.D (1)		
49	SILICONE 11 (150)	Cat. (1)		
50	STYCAST 3050 (23)	Cat.9 (5)		
51	STYCAST 2850MT (21)	24LV (1)		
52	STYCAST 1492A (14)	1492B (1)		
53	STY. 1492FR A (84)	1492FR B (5)		
54	STY. 2651-40 (62)	Cat.9 (5)		
55	ECCOGEL 1266A (18)	1266B (5)		
56	STYCAST 2741LV (2)	15LV (1)	(Bottom 2850MT)	
57	STY. ALUMI. (15.6)	Cat.9 (1)	(Bottom 2850MT)	
58	STYCAST 3180A (1)	3180B (1)		
59	STYCAST 3180A (57)	3180B (57)	Ecco. SI (10)	
60	STYCAST 3180A (1)	3180B (1)	(Bottom 2850MT)	

1 cont.

COMPOSITION AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
61	STY. 1090-SI (100)	Cat.24LV (23)		
62	SILICONE 627 (10)	Cat. (1)		
63	STY. 3180A (6.45)	3180B (6.45)	Ecco.IG-101 (1)	
64	STYCAST 1217 (7.7)	Cat.9 (1)		
65	SILICONE 664 (10)	Cat. (1)		
66	SILICONE 170A (3.15)	170B (3.15)	Ecco. FA-A (1)	
67	SILICONE 3120 (10)	Cat.S (1)		
68	SILICONE 3120 (10)	Cat.1 (1)		
69	ECCOGEL 1265A (1)	1265B (1)		
70	SILICONE 170A (10)	170B (10)	Ecco.IG-101 (1)	
71	SILICONE 662A (10)	662B (1)		
72	SILICONE 662A (5)	662B (1)		
73	SILICONE 662A (15)	662B (1)		
74	SILICONE 664A (5)	664B (1)		
75	SILICONE 664A (10)	664B (1)		

1 cont.

COMPOSITION AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
76	SILICONE 664A (15)	664B (1)		
77	SILICONE 700A (10)	Beta 5 (1)		
78	SILICONE 700A (5)	Beta 5 (1)		
79	SILICONE 700A (5)	Beta 1 (1)		
80	SILICONE 700A (10)	Beta 1 (1)		
81	SILICONE 700A (15)	Beta 5 (1)		
82	SILICONE 700A (15)	Beta 1 (1)		
83	SILICONE 170A (1)	170B (1)		
84	SILICONE 668A (15)	668B (1)		
85	SYLGARD 184 (10)	Cat. (1)	1265A (11)	
86	SYLGARD 184 (20)	Cat. (2)	1265A (11)	
87	SILICONE 11 (192)	Cat. (1)		
88	SILICONE 11 (220)	Cat. (1)		
89	SYL.184 (exp.) (10)	Cat. (1)	1265A (11)	Ecco.FA-A (1.1)
90	SYLGARD 184 (10)	Cat. (1)	1265A (11)	Ecco.FA-A (1.1)

1 cont.

COMPOSITION AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
91	SYLGARD 184 (20)	Cat. (2)	1265A (11)	Ecco.FA-A (.825)
92	SYLGARD 184 (10)	Cat. (1)	1265A (16.2)	
93	SYLGARD 182 (20)	Cat. (2)	1265A (11)	Ecco.FA-A (.825)
94	SYLGARD 182 (20)	Cat. (2)	1265A (11)	
95	STYCAST 3180A (57)	3180B (57)	Ecco.FA-A (10)	
96	STYCAST 2741LV (5)	15LV (5)	Ecco.IG-101 (1)	
97	STYCAST 2741LV (20)	15LV (10)	Ecco.IG-101 (3)	
98	STYCAST 2741LV (40)	15LV (10)	Ecco.IG-101 (5)	
99	SYLGARD 184 (100)	Cat. (10)	Ecco.IG-101 (11)	
100	STYCAST 2741LV (2)	15LV (1)		
101	STY. 2850MT (100)	24LV (4.8)		
103	STY. 2850MT (315)	24LV (15)	Ecco.FA-A (7)	
104	STY. 2850MT (315)	24LV (15)	Ecco.IG-101 (7)	
105	SILICONE 3110 (10)	Cat.S (1)		

1 cont.

COMPOSITION AND RATIO OF MATERIALS				
CODE #	MATERIAL A	MATERIAL B	MATERIAL C	MATERIAL D
106	SILICONE 3110 (10)	Cat.S (1)	Ecco. SI (1)	
107	SILICONE 3110 (10)	Cat.S (1)	Ecco. FA-A (1)	
108	SILICONE 3110 (10)	Cat.S (1)	Ecco. IG-101 (1)	
109	SILICONE 3110 (10)	Cat.S (1)	Ecco. FA-A (1)	
110	SILICONE 170 A (3)	170 B (3)	Ecco. FA-A (1)	

1 cont.

ACOUSTIC PROPERTIES OF MODELING MATERIALS AT SAL

CODE NO.	AVG. VEL. (ft. per sec)	AVG. SCALED VEL. (ft/sec)	DENS. (lbs. per cubic ft)	ACOUS. IMPED. ⁴ X 10
33	3000	7200	92.32	66.47
67	3031	7275	90.38	95.75
49	3199	7675	76.59	58.78
65	3204	7690	78.22	60.15
62	3212	7709	85.42	65.85
75	3255	7813	79.68	62.25
78	3258	7820	69.55	54.39
42	3265	7837	85.03	66.34
81	3267	7840	68.38	53.61
40	3273	7854	83.80	65.82
77	3274	7858	68.59	53.90
41	3274	7858	84.19	66.16
105	3283	7879	66.48	52.38
44	3288	7890	69.42	54.77
74	3289	7893	78.25	61.76
71	3302	7924	78.81	62.45
82	3305	7952	68.40	54.43
79	3312	7949	69.43	55.59
80	3313	7952	63.46	50.46

Table 2

CODE NO.	AVG. VEL. (ft. per sec)	AVG. SCALED VEL. (ft./sec)	DENS. (lbs. per cubic ft)	ACOUS. IMPED. ⁴ x 10
72	3330	7992	77.69	62.09
46	3367	8081	65.20	52.69
47	3397	8153	65.06	53.04
48	3403	8168	64.83	52.95
37	3418	8202	65.42	53.66
35	3433	8240	64.02	52.75
34	3459	8302	74.19	61.59
70	3468	8323	71.15	59.22
107	3555	8532	66.93	57.10
108	3730	8953	61.10	54.70
86	3773	9054	70.12	63.49
94	3801	9123	67.73	61.79
91	3819	9165	65.52	60.05
66	3832	9196	72.58	66.74
110	3884	9321	74.62	69.55
93	3894	9345	66.14	61.81
106	3979	9478	51.98	49.27
85	3996	9591	66.93	64.19
30	4068	9764	57.35	56.00
88	4079	9789	73.69	72.14
89	4182	10037	69.96	70.22

2 cont.

CODE NO.	AVG. VEL. (ft. per sec)	AVG. SCALED VEL. (ft/sec)	DENS. (lbs. per cubic ft)	ACOUS. IMPED. ⁴ x 10
90	4194	10065	66.54	66.97
92	4223	10136	69.41	70.35
87	4255	10213	73.84	75.41
109	4425	10620	65.67	69.74
83	4695	11267	86.74	97.73
9	5314	12753	81.87	104.41
10	5315	12755	78.54	100.18
69	5495	13188	67.83	89.45
11	5666	13599	71.74	97.56
13	5901	14163	73.54	104.15
12	5915	14195	73.59	104.46
14	6105	14653	75.46	110.57
19	6185	14843	87.57	126.36
6	6488	15571	51.35	79.96
97	6516	15637	46.44	72.62
16	6558	15740	77.96	122.71
15	6690	16055	78.93	126.72
18	6737	16168	63.53	102.72
98	6782	16276	47.42	77.18
7	6915	16597	77.07	127.91
5	6961	16707	67.02	111.97

2 cont.

CODE NO.	AVG. VEL. (ft. per sec)	AVG. SCALED VEL. (ft/sec)	DENS. (lbs. per cubic ft)	ACOUS. IMPED. ⁴ x 10
100	6968	16723	71.93	120.29
96	7132	17116	63.00	107.83
24	7262	17428	62.97	109.74
23	7377	17705	66.47	117.69
17	7415	17796	77.42	137.78
25	7416	17799	68.21	121.41
3	7570	18167	53.59	97.36
22	7861	18866	69.94	131.95
56	7865	18876	83.03	156.73
4	7915	18995	55.31	105.06
26	7974	19138	73.28	140.24
2	7995	19189	70.04	134.40
55	8158	19580	72.95	142.84
61	8342	20020	44.73	89.55
20	8380	20113	95.93	192.94
21	8408	20174	93.79	189.21
8	8437	20248	90.29	182.82
59	8454	20290	60.21	122.17
63	8462	20309	69.54	141.23
1	8765	21037	77.42	162.87

2 cont.

CODE NO.	AVG. VEL. (ft. per sec)	AVG. SCALED VEL. (ft/sec)	DENS. (lbs. per cubic ft)	ACOUS. IMPED. $\times 10^4$
64	8887	21328	72.85	155.37
58	9093	21823	98.17	214.24
60	9127	21904	98.54	215.84
32	9230	22153	131.27	290.80
50	9231	22155	96.44	213.66
57	9301	22323	96.55	215.53
31	9337	22409	133.12	198.31
54	9365	22476	90.85	204.19
104	9419	22606	140.24	317.03
29	9463	22712	99.90	226.89
28	9581	22995	98.64	226.82
95	9583	22999	88.59	203.75
53	9840	23615	106.93	252.52
101	9949	23877	155.80	372.00
102	9997	23993	155.67	373.50
52	10006	24014	104.44	250.80
103	10027	24065	146.80	353.27
51	10738	25772	154.12	397.20

2 cont.

CODE NO.		DENS. (lbs. per cubic ft)
27	NO SIGNAL	47.70
36	NO SIGNAL	69.52
38	NO SIGNAL	78.62
84	NO SIGNAL	70.34
39	NO SIGNAL	82.26
68	NO SIGNAL	90.12
76	NO SIGNAL	74.80
99	NO SIGNAL	53.68
43	POOR MATERIAL	60.09

2 cont.