

LDEOC Silicone

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Wednesday, August 1, 2012 73

All Valid Reference Data and All Valid Batch 8 & 9 Runs
Analyzed by Elastomer Batch

The GLM Procedure

Class Level Information

Class	Levels	Values
SPECIAL	9	1 2 3 4 5 6 7 8 9
Number of Observations Read		328
Number of Observations Used		328

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

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The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	551.978005	68.997251	2.41	0.0154
Error	319	9127.378587	28.612472		
Corrected Total	327	9679.356592			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.057026	16.66642	5.349063	32.09485

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	551.9780055	68.9972507	2.41	0.0154

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	551.9780055	68.9972507	2.41	0.0154

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

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The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	112.680030	14.085004	3.98	0.0002
Error	319	1129.271189	3.540035		
Corrected Total	327	1241.951220			

R-Square	Coeff Var	Root MSE	HARD Mean
0.090728	-8.746193	1.881498	-21.51220

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	112.6800301	14.0850038	3.98	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	112.6800301	14.0850038	3.98	0.0002

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

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The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	1038.082469	129.760309	6.55	<.0001
Error	319	6322.795870	19.820677		
Corrected Total	327	7360.878339			

R-Square	Coeff Var	Root MSE	TENS Mean
0.141027	-12.85113	4.452042	-34.64320

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	1038.082469	129.760309	6.55	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	1038.082469	129.760309	6.55	<.0001

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The GLM Procedure

Least Squares Means

SPECIAL	VOLC LSMEAN	LSMEAN Number
1	29.6116667	1
2	33.7500000	2
3	30.4063889	3
4	32.3800000	4
5	32.8459574	5
6	30.9133333	6
7	32.7111765	7
8	33.9574286	8
9	32.2525000	9

Least Squares Means for effect SPECIAL
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5	6	7	8
9								
1		0.0249	0.6561	0.3014	0.0625	0.4300	0.0651	0.0157
0.2802								
2	0.0249		0.0127	0.5684	0.4747	0.0139	0.3819	0.8774
0.4838								
3	0.6561	0.0127		0.4034	0.0403	0.6328	0.0374	0.0055
0.3779								
4	0.3014	0.5684	0.4034		0.8409	0.5164	0.8845	0.5050
0.9648								
5	0.0625	0.4747	0.0403	0.8409		0.0468	0.8944	0.3527
0.7719								
6	0.4300	0.0139	0.6328	0.5164	0.0468		0.0387	0.0048
0.4985								
7	0.0651	0.3819	0.0374	0.8845	0.8944	0.0387		0.2636
0.8187								
8	0.0157	0.8774	0.0055	0.5050	0.3527	0.0048	0.2636	
0.4166								
9	0.2802	0.4838	0.3779	0.9648	0.7719	0.4985	0.8187	0.4166

SPECIAL	HARD LSMEAN	LSMEAN Number
1	-22.4166667	1
2	-22.2758621	2
3	-21.8055556	3
4	-23.3333333	4
5	-21.2340426	5

6	-21.8045977	6
7	-21.0441176	7
8	-20.4857143	8

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The GLM Procedure
 Least Squares Means

SPECIAL	HARD LSMEAN	LSMEAN Number
9	-21.6250000	9

Least Squares Means for effect SPECIAL
 Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5	6	7	8
9								
1		0.8275	0.3306	0.3306	0.0529	0.2916	0.0204	0.0023
0.3573								
2	0.8275		0.3172	0.2111	0.0196	0.2436	0.0034	0.0002
0.3870								
3	0.3306	0.3172		0.0665	0.1712	0.9980	0.0505	0.0034
0.8062								
4	0.3306	0.2111	0.0665		0.0105	0.0551	0.0046	0.0007
0.0937								
5	0.0529	0.0196	0.1712	0.0105		0.0949	0.5950	0.0758
0.5873								
6	0.2916	0.2436	0.9980	0.0551	0.0949		0.0130	0.0005
0.7963								
7	0.0204	0.0034	0.0505	0.0046	0.5950	0.0130		0.1547
0.4094								
8	0.0023	0.0002	0.0034	0.0007	0.0758	0.0005	0.1547	
0.1233								
9	0.3573	0.3870	0.8062	0.0937	0.5873	0.7963	0.4094	0.1233

SPECIAL	TENS LSMEAN	LSMEAN Number
1	-39.2583333	1
2	-37.1931034	2
3	-35.6766667	3
4	-34.8166667	4
5	-36.3212766	5
6	-33.0083908	6
7	-34.2491176	7
8	-32.3788571	8
9	-34.8725000	9

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The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5	6	7	8
9								
1		0.1775	0.0164	0.0469	0.0422	<.0001	0.0004	<.0001
0.0316								
2	0.1775		0.1732	0.2349	0.4076	<.0001	0.0031	<.0001
0.1928								
3	0.0164	0.1732		0.6616	0.5138	0.0027	0.1208	0.0020
0.6443								
4	0.0469	0.2349	0.6616		0.4362	0.3366	0.7649	0.2162
0.9815								
5	0.0422	0.4076	0.5138	0.4362		<.0001	0.0147	<.0001
0.3955								
6	<.0001	<.0001	0.0027	0.3366	<.0001		0.0861	0.4804
0.2579								
7	0.0004	0.0031	0.1208	0.7649	0.0147	0.0861		0.0443
0.7082								
8	<.0001	<.0001	0.0020	0.2162	<.0001	0.4804	0.0443	
0.1539								
9	0.0316	0.1928	0.6443	0.9815	0.3955	0.2579	0.7082	0.1539

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

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All Valid Reference Data and All Valid Batch 8 & 9 Runs
Analyzed by Lab

The GLM Procedure

Class Level Information

Class	Levels	Values
LTMSLAB	5	A B E G I

Number of Observations Read 328

Number of Observations Used 328

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	1054.529528	263.632382	9.87	<.0001
Error	323	8624.827065	26.702251		
Corrected Total	327	9679.356592			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.108946	16.10047	5.167422	32.09485

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	1054.529528	263.632382	9.87	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	1054.529528	263.632382	9.87	<.0001

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	727.821885	181.955471	114.31	<.0001
Error	323	514.129334	1.591732		
Corrected Total	327	1241.951220			

R-Square	Coeff Var	Root MSE	HARD Mean
0.586031	-5.864759	1.261638	-21.51220

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	727.8218852	181.9554713	114.31	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	727.8218852	181.9554713	114.31	<.0001

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	418.784379	104.696095	4.87	0.0008
Error	323	6942.093959	21.492551		
Corrected Total	327	7360.878339			

R-Square	Coeff Var	Root MSE	TENS Mean
0.056893	-13.38215	4.636006	-34.64320

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	418.7843794	104.6960949	4.87	0.0008

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	418.7843794	104.6960949	4.87	0.0008

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Analyzed by Lab

The GLM Procedure

Least Squares Means

LTMSLAB	VOLC LSMEAN	LSMEAN Number
A	29.9639252	1
B	34.4792754	2
E	31.7283333	3
G	33.4015476	4
I	31.3469643	5

Least Squares Means for effect LTMSLAB

Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5
1		<.0001	0.2629	<.0001	0.1056
2	<.0001		0.0897	0.2002	0.0008
3	0.2629	0.0897		0.2949	0.8167
4	<.0001	0.2002	0.2949		0.0218
5	0.1056	0.0008	0.8167	0.0218	

LTMSLAB	HARD LSMEAN	LSMEAN Number
A	-22.4859813	1
B	-22.9710145	2
E	-20.3333333	3
G	-19.1666667	4
I	-21.6250000	5

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All Valid Reference Data and All Valid Batch 8 & 9 Runs Analyzed by Lab

The GLM Procedure
Least Squares Means

Least Squares Means for effect LTMSLAB
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5
1		0.0133	<.0001	<.0001	<.0001
2	0.0133		<.0001	<.0001	<.0001
3	<.0001	<.0001		0.0029	0.0014
4	<.0001	<.0001	0.0029		<.0001
5	<.0001	<.0001	0.0014	<.0001	

LTMSLAB	TENS LSMEAN	LSMEAN Number
A	-33.3644860	1
B	-34.3507246	2
E	-33.4558333	3
G	-35.6321429	4
I	-36.2178571	5

Least Squares Means for effect LTMSLAB
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5
1		0.1692	0.9484	0.0009	0.0002
2	0.1692		0.5376	0.0899	0.0258
3	0.9484	0.5376		0.1292	0.0620
4	0.0009	0.0899	0.1292		0.4645
5	0.0002	0.0258	0.0620	0.4645	

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

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The GLM Procedure

Class Level Information

Class	Levels	Values
SPECIAL	9	1 2 3 4 5 6 7 8 9
LTMSLAB	5	A B E G I

Number of Observations Read	328
Number of Observations Used	328

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

Analyzed by Elastomer Batch & Lab

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	34	1805.509195	53.103212	1.98	0.0015
Error	293	7873.847397	26.873199		
Corrected Total	327	9679.356592			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.186532	16.15193	5.183937	32.09485

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	551.9780055	68.9972507	2.57	0.0101
LTMSLAB	4	759.7217445	189.9304361	7.07	<.0001
SPECIAL*LTMSLAB	22	493.8094452	22.4458839	0.84	0.6806

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	95.0365364	11.8795671	0.44	0.8952
LTMSLAB	4	389.6353213	97.4088303	3.62	0.0067
SPECIAL*LTMSLAB	22	493.8094452	22.4458839	0.84	0.6806

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The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	34	894.492530	26.308604	22.19	<.0001
Error	293	347.458690	1.185866		
Corrected Total	327	1241.951220			

R-Square	Coeff Var	Root MSE	HARD Mean
0.720232	-5.062127	1.088975	-21.51220

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	112.6800301	14.0850038	11.88	<.0001
LTMSLAB	4	682.2314759	170.5578690	143.83	<.0001
SPECIAL*LTMSLAB	22	99.5810239	4.5264102	3.82	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	44.3614601	5.5451825	4.68	<.0001
LTMSLAB	4	444.7431960	111.1857990	93.76	<.0001
SPECIAL*LTMSLAB	22	99.5810239	4.5264102	3.82	<.0001

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Analyzed by Elastomer Batch & Lab

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	34	2748.694394	80.843953	5.14	<.0001
Error	293	4612.183944	15.741242		
Corrected Total	327	7360.878339			

R-Square	Coeff Var	Root MSE	TENS Mean
0.373419	-11.45253	3.967523	-34.64320

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	8	1038.082469	129.760309	8.24	<.0001
LTMSLAB	4	578.053938	144.513484	9.18	<.0001
SPECIAL*LTMSLAB	22	1132.557988	51.479909	3.27	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	8	819.680375	102.460047	6.51	<.0001
LTMSLAB	4	194.441200	48.610300	3.09	0.0163
SPECIAL*LTMSLAB	22	1132.557988	51.479909	3.27	<.0001

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The GLM Procedure
 Least Squares Means

SPECIAL	VOLC LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	31.5569048	3
4	Non-est	4
5	32.8373485	5
6	31.0306540	6
7	32.6812326	7
8	33.3548187	8
9	Non-est	9

Least Squares Means for effect SPECIAL
 Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5	6	7	8	9
1
2
3	0.4698	0.7424	0.4569	0.3121	.
4
5	.	.	0.4698	.	.	0.2434	0.9145	0.7647	.
6	.	.	0.7424	.	0.2434	.	0.1841	0.1356	.
7	.	.	0.4569	.	0.9145	0.1841	.	0.6448	.
8	.	.	0.3121	.	0.7647	0.1356	0.6448	.	.
9

SPECIAL	HARD LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	-22.3440476	3
4	Non-est	4
5	-21.3865867	5
6	-21.2502608	6
7	-20.6262592	7
8	-20.8637363	8

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The GLM Procedure
Least Squares Means

SPECIAL	HARD LSMEAN	LSMEAN Number
9	Non-est	9

Least Squares Means for effect SPECIAL
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5	6	7	8
9								
1
2
3	0.0105	0.0013	<.0001	<.0001
4
5	.	.	0.0105	.	.	0.6749	0.0132	0.1507
6	.	.	0.0013	.	0.6749	.	0.0172	0.2371
7	.	.	<.0001	.	0.0132	0.0172	.	0.4393
8	.	.	<.0001	.	0.1507	0.2371	0.4393	.
9

SPECIAL	TENS LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	-34.9033571	3
4	Non-est	4
5	-36.9050989	5
6	-33.2053062	6
7	-33.4068712	7
8	-32.5890220	8
9	Non-est	9

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The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5	6	7	8
9								
1
2
3	0.1404	0.1664	0.1961	0.0896
4
5	.	.	0.1404	.	.	0.0019	0.0018	0.0012
6	.	.	0.1664	.	0.0019	.	0.8319	0.6045
7	.	.	0.1961	.	0.0018	0.8319	.	0.4648
8	.	.	0.0896	.	0.0012	0.6045	0.4648	.
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NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

LTMSLAB	VOLC LSMEAN	LSMEAN Number
A	30.2160716	1
B	Non-est	2
E	Non-est	3
G	Non-est	4
I	Non-est	5

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The GLM Procedure
Least Squares Means

Least Squares Means for effect LTMSLAB
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5
1	
2
3	.	.		.	0.9514
4
5	.	.	0.9514	.	

LTMSLAB	HARD LSMEAN	LSMEAN Number
A	-22.5102561	1
B	Non-est	2
E	Non-est	3
G	Non-est	4
I	Non-est	5

Least Squares Means for effect LTMSLAB
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5
1	
2
3	.	.		.	0.0026
4
5	.	.	0.0026	.	

LTMSLAB	TENS LSMEAN	LSMEAN Number
A	-33.8093165	1
B	Non-est	2

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The GLM Procedure

Least Squares Means

LTMSLAB	TENS LSMEAN	LSMEAN Number
E	Non-est	3
G	Non-est	4
I	Non-est	5

Least Squares Means for effect LTMSLAB
Pr > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5
1	
2
3	.	.		.	0.1928
4
5	.	.	0.1928	.	

NOTE: To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

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All Valid Reference Data and All Valid Batch 8 & 9 Runs

Distribution of Data Set

The FREQ Procedure

Table of LTMSLAB by SPECIAL

LTMSLAB	SPECIAL									Total
Frequency,										
Percent										
Row Pct										
Col Pct	1	2	3	4	5	6	7	8	9	
A	12	4	5	5	13	47	17	2	2	107
	3.66	1.22	1.52	1.52	3.96	14.33	5.18	0.61	0.61	32.62
	11.21	3.74	4.67	4.67	12.15	43.93	15.89	1.87	1.87	
	100.00	13.79	13.89	83.33	27.66	54.02	25.00	5.71	25.00	
B	0	19	7	1	7	5	16	14	0	69
	0.00	5.79	2.13	0.30	2.13	1.52	4.88	4.27	0.00	21.04
	0.00	27.54	10.14	1.45	10.14	7.25	23.19	20.29	0.00	
	0.00	65.52	19.44	16.67	14.89	5.75	23.53	40.00	0.00	
E	0	0	1	0	1	2	3	2	3	12
	0.00	0.00	0.30	0.00	0.30	0.61	0.91	0.61	0.91	3.66
	0.00	0.00	8.33	0.00	8.33	16.67	25.00	16.67	25.00	
	0.00	0.00	2.78	0.00	2.13	2.30	4.41	5.71	37.50	
G	0	6	15	0	15	14	19	13	2	84
	0.00	1.83	4.57	0.00	4.57	4.27	5.79	3.96	0.61	25.61
	0.00	7.14	17.86	0.00	17.86	16.67	22.62	15.48	2.38	
	0.00	20.69	41.67	0.00	31.91	16.09	27.94	37.14	25.00	
I	0	0	8	0	11	19	13	4	1	56
	0.00	0.00	2.44	0.00	3.35	5.79	3.96	1.22	0.30	17.07
	0.00	0.00	14.29	0.00	19.64	33.93	23.21	7.14	1.79	
	0.00	0.00	22.22	0.00	23.40	21.84	19.12	11.43	12.50	
Total	12	29	36	6	47	87	68	35	8	328
	3.66	8.84	10.98	1.83	14.33	26.52	20.73	10.67	2.44	100.00