

PlotByBatchP.lst

LDEOC Polyacrylate

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

## Class Level Information

Class	Levels	Values
SPECIAL	8	1 2 3 4 5 6 7 8
Number of Observations Read		296
Number of Observations Used		296

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	114.9684027	16.4240575	51.25	<.0001
Error	288	92.2935108	0.3204636		
Corrected Total	295	207.2619135			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.554701	17.91746	0.566095	3.159459

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	7	114.9684027	16.4240575	51.25	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	7	114.9684027	16.4240575	51.25	<.0001

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	511.5491078	73.0784440	43.37	<.0001
Error	288	485.3022436	1.6850772		
Corrected Total	295	996.8513514			

R-Square	Coeff Var	Root MSE	HARD Mean
0.513165	-41.13910	1.298105	-3.155405

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	7	511.5491078	73.0784440	43.37	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	7	511.5491078	73.0784440	43.37	<.0001

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	413.12202	59.01743	0.79	0.6002
Error	288	21647.95338	75.16650		
Corrected Total	295	22061.07540			

R-Square	Coeff Var	Root MSE	TENS Mean
0.018726	-334.9928	8.669862	-2.588074

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	7	413.1220242	59.0174320	0.79	0.6002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	7	413.1220242	59.0174320	0.79	0.6002

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Least Squares Means

SPECIAL	VOLC LSMEAN	LSMEAN Number
1	3.85400000	1
2	4.00555556	2
3	4.03325581	3
4	3.79000000	4
5	2.70957447	5
6	3.44938462	6
7	2.56240964	7
8	2.35250000	8

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
1		0.4701	0.3678	0.9142	<.0001	0.0362	<.0001	<.0001
2	0.4701		0.8422	0.7087	<.0001	<.0001	<.0001	<.0001
3	0.3678	0.8422		0.6713	<.0001	<.0001	<.0001	<.0001
4	0.9142	0.7087	0.6713		0.0600	0.5509	0.0319	0.0138
5	<.0001	<.0001	<.0001	0.0600		<.0001	0.1555	0.0188
6	0.0362	<.0001	<.0001	0.5509	<.0001		<.0001	<.0001
7	<.0001	<.0001	<.0001	0.0319	0.1555	<.0001		0.1377
8	<.0001	<.0001	<.0001	0.0138	0.0188	<.0001	0.1377	

SPECIAL	HARD LSMEAN	LSMEAN Number
1	-5.20000000	1
2	-5.62962963	2
3	-4.86046512	3
4	-5.00000000	4
5	-1.55319149	5
6	-2.93846154	6
7	-2.40963855	7
8	-2.60000000	8

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5	6	7	8
1		0.3720	0.4569	0.8833	<.0001	<.0001	<.0001	<.0001
2	0.3720		0.0164	0.6342	<.0001	<.0001	<.0001	<.0001
3	0.4569	0.0164		0.9154	<.0001	<.0001	<.0001	<.0001
4	0.8833	0.6342	0.9154		0.0091	0.1161	0.0483	0.0722
5	<.0001	<.0001	<.0001	0.0091		<.0001	0.0004	0.0027
6	<.0001	<.0001	<.0001	0.1161	<.0001		0.0145	0.3087
7	<.0001	<.0001	<.0001	0.0483	0.0004	0.0145		0.5565
8	<.0001	<.0001	<.0001	0.0722	0.0027	0.3087	0.5565	

SPECIAL	TENS LSMEAN	LSMEAN Number
1	-5.71000000	1
2	-1.67037037	2
3	-3.86302326	3
4	-0.70000000	4
5	-0.91829787	5
6	-1.88169231	6
7	-3.40626506	7
8	-2.44350000	8

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5	6	7	8
1		0.2092	0.5445	0.5821	0.1136	0.1947	0.4280	0.3315
2	0.2092		0.3039	0.9126	0.7197	0.9153	0.3669	0.7627
3	0.5445	0.3039		0.7186	0.1086	0.2460	0.7794	0.5457
4	0.5821	0.9126	0.7186		0.9801	0.8925	0.7566	0.8446
5	0.1136	0.7197	0.1086	0.9801		0.5621	0.1171	0.5105
6	0.1947	0.9153	0.2460	0.8925	0.5621		0.2893	0.8001
7	0.4280	0.3669	0.7794	0.7566	0.1171	0.2893		0.6561
8	0.3315	0.7627	0.5457	0.8446	0.5105	0.8001	0.6561	

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 Runs

Analyzed by Lab

The GLM Procedure

## Class Level Information

Class	Levels	Values
LTMSLAB	5	A B E G I

Number of Observations Read 296

Number of Observations Used 296



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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	18.7816801	4.6954200	7.25	<.0001
Error	291	188.4802334	0.6476984		
Corrected Total	295	207.2619135			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.090618	25.47262	0.804797	3.159459

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	18.78168010	4.69542002	7.25	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	18.78168010	4.69542002	7.25	<.0001

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	126.1258661	31.5314665	10.54	<.0001
Error	291	870.7254852	2.9921838		
Corrected Total	295	996.8513514			

R-Square	Coeff Var	Root MSE	HARD Mean
0.126524	-54.81999	1.729793	-3.155405

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	126.1258661	31.5314665	10.54	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	126.1258661	31.5314665	10.54	<.0001

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Lab

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	126.32269	31.58067	0.42	0.7949
Error	291	21934.75271	75.37716		
Corrected Total	295	22061.07540			

R-Square	Coeff Var	Root MSE	TENS Mean
0.005726	-335.4618	8.682002	-2.588074

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	126.3226930	31.5806733	0.42	0.7949

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	126.3226930	31.5806733	0.42	0.7949

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Lab

The GLM Procedure

Least Squares Means

LTMSLAB	VOLC LSMEAN	LSMEAN Number
A	3.01343750	1
B	3.25365079	2
E	2.34875000	3
G	3.05911392	4
I	3.60940000	5

Least Squares Means for effect LTMSLAB

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: VOLC

i/j	1	2	3	4	5
1		0.0667	0.0256	0.7090	<.0001
2	0.0667		0.0030	0.1535	0.0203
3	0.0256	0.0030		0.0180	<.0001
4	0.7090	0.1535	0.0180		0.0002
5	<.0001	0.0203	<.0001	0.0002	

LTMSLAB	HARD LSMEAN	LSMEAN Number
A	-3.35416667	1
B	-4.00000000	2
E	-4.62500000	3
G	-2.34177215	4
I	-2.76000000	5

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Lab

The GLM Procedure

Least Squares Means

Least Squares Means for effect LTMSLAB

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5
1		0.0220	0.0468	0.0001	0.0498
2	0.0220		0.3365	<.0001	0.0002
3	0.0468	0.3365		0.0004	0.0050
4	0.0001	<.0001	0.0004		0.1820
5	0.0498	0.0002	0.0050	0.1820	

LTMSLAB	TENS LSMEAN	LSMEAN Number
A	-2.56458333	1
B	-1.57460317	2
E	-1.62125000	3
G	-3.40126582	4
I	-2.78000000	5

Least Squares Means for effect LTMSLAB

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5
1		0.4825	0.7680	0.5263	0.8870
2	0.4825		0.9886	0.2139	0.4641
3	0.7680	0.9886		0.5810	0.7262
4	0.5263	0.2139	0.5810		0.6924
5	0.8870	0.4641	0.7262	0.6924	

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 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

## Class Level Information

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

Number of Observations Read	296
Number of Observations Used	296

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	29	157.1015753	5.4172957	28.73	<.0001
Error	266	50.1603382	0.1885727		
Corrected Total	295	207.2619135			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.757986	13.74443	0.434250	3.159459

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	7	114.9684027	16.4240575	87.10	<.0001
LTMSLAB	4	12.4888129	3.1222032	16.56	<.0001
SPECIAL*LTMSLAB	18	29.6443596	1.6469089	8.73	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	7	44.78080091	6.39725727	33.92	<.0001
LTMSLAB	4	9.71086867	2.42771717	12.87	<.0001
SPECIAL*LTMSLAB	18	29.64435965	1.64690887	8.73	<.0001

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	29	698.0010104	24.0690004	21.42	<.0001
Error	266	298.8503410	1.1234975		
Corrected Total	295	996.8513514			

R-Square	Coeff Var	Root MSE	HARD Mean
0.700206	-33.59162	1.059952	-3.155405

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	7	511.5491078	73.0784440	65.05	<.0001
LTMSLAB	4	109.9221684	27.4805421	24.46	<.0001
SPECIAL*LTMSLAB	18	76.5297342	4.2516519	3.78	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	7	187.5267490	26.7895356	23.84	<.0001
LTMSLAB	4	71.8789835	17.9697459	15.99	<.0001
SPECIAL*LTMSLAB	18	76.5297342	4.2516519	3.78	<.0001



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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	29	2218.56107	76.50211	1.03	0.4343
Error	266	19842.51434	74.59592		
Corrected Total	295	22061.07540			

R-Square	Coeff Var	Root MSE	TENS Mean
0.100565	-333.7189	8.636893	-2.588074

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	7	413.122024	59.017432	0.79	0.5953
LTMSLAB	4	139.927445	34.981861	0.47	0.7585
SPECIAL*LTMSLAB	18	1665.511598	92.528422	1.24	0.2286

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	7	240.220538	34.317220	0.46	0.8628
LTMSLAB	4	70.799738	17.699935	0.24	0.9171
SPECIAL*LTMSLAB	18	1665.511598	92.528422	1.24	0.2286

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Least Squares Means

SPECIAL	VOLC LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	3.90796162	3
4	Non-est	4
5	2.72915385	5
6	2.94025429	6
7	2.58338384	7
8	2.41214286	8

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
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	<.0001	<.0001	<.0001	<.0001
4	.	.	.	.	.	.	.	.
5	.	.	<.0001	.	.	0.1561	0.2387	0.0435
6	.	.	<.0001	.	0.1561	.	0.0043	0.0009
7	.	.	<.0001	.	0.2387	0.0043	.	0.1999
8	.	.	<.0001	.	0.0435	0.0009	0.1999	.

SPECIAL	HARD LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	-4.75939394	3
4	Non-est	4
5	-2.09923077	5
6	-3.60742857	6
7	-2.75620915	7
8	-2.91428571	8

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Least Squares Means

Least Squares Means for effect SPECIAL

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5	6	7	8
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	<.0001	0.0019	<.0001	<.0001
4	.	.	.	.	.	.	.	.
5	.	.	<.0001	.	.	<.0001	0.0301	0.0335
6	.	.	0.0019	.	<.0001	.	0.0053	0.0710
7	.	.	<.0001	.	0.0301	0.0053	.	0.6273
8	.	.	<.0001	.	0.0335	0.0710	0.6273	.

SPECIAL	TENS LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	-2.72783838	3
4	Non-est	4
5	-1.81103846	5
6	-1.08385714	6
7	-3.46645514	7
8	-2.23700000	8

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

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
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	0.7585	0.5826	0.7677	0.8760
4	.	.	.	.	.	.	.	.
5	.	.	0.7585	.	.	0.8056	0.5007	0.8911
6	.	.	0.5826	.	0.8056	.	0.3347	0.7116
7	.	.	0.7677	.	0.5007	0.3347	.	0.6431
8	.	.	0.8760	.	0.8911	0.7116	0.6431	.

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

LTMSLAB	VOLC LSMEAN	LSMEAN Number
A	Non-est	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: VOLC

i/j	1	2	3	4	5
1	.	.	.	.	.
2	.	.	.	0.7675	.
3	.	.	.	.	.
4	.	0.7675	.	.	.
5	.	.	.	.	.

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Least Squares Means

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

Least Squares Means for effect LTMSLAB

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5
1		.	.	.	.
2	.		.	<.0001	.
3	.	.		.	.
4	.	<.0001	.		.
5	.	.	.	.	

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

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch &amp; Lab

The GLM Procedure

Least Squares Means

Least Squares Means for effect LTMSLAB

Pr &gt; |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: TENS

i/j	1	2	3	4	5
1	.	.	.	.	.
2	.	.	.	0.8773	.
3	.	.	.	.	.
4	.	0.8773	.	.	.
5	.	.	.	.	.

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 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	
A	10	4	5	0	13	28	34	2	96
	3.38	1.35	1.69	0.00	4.39	9.46	11.49	0.68	32.43
	10.42	4.17	5.21	0.00	13.54	29.17	35.42	2.08	
	100.00	14.81	11.63	0.00	27.66	43.08	40.96	10.00	
B	0	18	9	0	8	4	17	7	63
	0.00	6.08	3.04	0.00	2.70	1.35	5.74	2.36	21.28
	0.00	28.57	14.29	0.00	12.70	6.35	26.98	11.11	
	0.00	66.67	20.93	0.00	17.02	6.15	20.48	35.00	
E	0	0	1	0	1	1	3	2	8
	0.00	0.00	0.34	0.00	0.34	0.34	1.01	0.68	2.70
	0.00	0.00	12.50	0.00	12.50	12.50	37.50	25.00	
	0.00	0.00	2.33	0.00	2.13	1.54	3.61	10.00	
G	0	5	22	0	20	7	18	7	79
	0.00	1.69	7.43	0.00	6.76	2.36	6.08	2.36	26.69
	0.00	6.33	27.85	0.00	25.32	8.86	22.78	8.86	
	0.00	18.52	51.16	0.00	42.55	10.77	21.69	35.00	
I	0	0	6	1	5	25	11	2	50
	0.00	0.00	2.03	0.34	1.69	8.45	3.72	0.68	16.89
	0.00	0.00	12.00	2.00	10.00	50.00	22.00	4.00	
	0.00	0.00	13.95	100.00	10.64	38.46	13.25	10.00	
Total	10	27	43	1	47	65	83	20	296
	3.38	9.12	14.53	0.34	15.88	21.96	28.04	6.76	100.00