

PlotByBatchF.lst

LDEOC Fluoroelastomer

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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	7	1 2 3 5 6 7 8

Number of Observations Read 283

Number of Observations Used 283

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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	6	0.34150022	0.05691670	1.64	0.1359
Error	276	9.57507716	0.03469231		
Corrected Total	282	9.91657739			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.034437	28.66765	0.186259	0.649717

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	6	0.34150022	0.05691670	1.64	0.1359

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	6	0.34150022	0.05691670	1.64	0.1359

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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	6	7.2174944	1.2029157	0.84	0.5404
Error	276	395.5669579	1.4332136		
Corrected Total	282	402.7844523			

R-Square	Coeff Var	Root MSE	HARD Mean
0.017919	33.08582	1.197169	3.618375

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	6	7.21749438	1.20291573	0.84	0.5404

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	6	7.21749438	1.20291573	0.84	0.5404

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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	6	497.060405	82.843401	4.06	0.0006
Error	276	5627.075946	20.387956		
Corrected Total	282	6124.136351			

R-Square	Coeff Var	Root MSE	TENS Mean
0.081164	-8.541414	4.515302	-52.86364

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	6	497.0604049	82.8434008	4.06	0.0006

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	6	497.0604049	82.8434008	4.06	0.0006

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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	0.58100000	1
2	0.59481481	2
3	0.69062500	3
5	0.63000000	4
6	0.68014925	5
7	0.64666667	6
8	0.58000000	7

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
1		0.8413	0.0916	0.4553	0.1175	0.2948	0.9902
2	0.8413		0.0334	0.4444	0.0454	0.2135	0.8242
3	0.0916	0.0334		0.1246	0.7664	0.1993	0.0767
4	0.4553	0.4444	0.1246		0.1724	0.6405	0.4287
5	0.1175	0.0454	0.7664	0.1724		0.2814	0.0995
6	0.2948	0.2135	0.1993	0.6405	0.2814		0.2674
7	0.9902	0.8242	0.0767	0.4287	0.0995	0.2674	

SPECIAL	HARD LSMEAN	LSMEAN Number
1	4.00000000	1
2	3.55555556	2
3	3.41666667	3
5	3.78571429	4
6	3.61194030	5
7	3.69230769	6
8	3.18181818	7

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

Dependent Variable: HARD

i/j	1	2	3	4	5	6	7
1		0.3168	0.1621	0.6114	0.3398	0.4448	0.1189
2	0.3168		0.6300	0.4364	0.8365	0.6094	0.3835
3	0.1621	0.6300		0.1457	0.3891	0.2105	0.5578
4	0.6114	0.4364	0.1457		0.4614	0.6838	0.1375
5	0.3398	0.8365	0.3891	0.4614		0.6872	0.2704
6	0.4448	0.6094	0.2105	0.6838	0.6872		0.1866
7	0.1189	0.3835	0.5578	0.1375	0.2704	0.1866	

SPECIAL	TENS LSMEAN	LSMEAN Number
1	-56.4600000	1
2	-52.5037037	2
3	-51.7966667	3
5	-51.7385714	4
6	-52.7402985	5
7	-54.3058974	6
8	-49.9536364	7

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
1		0.0186	0.0032	0.0032	0.0157	0.1566	0.0011
2	0.0186		0.5156	0.4927	0.8184	0.0750	0.1155
3	0.0032	0.5156		0.9515	0.2701	0.0027	0.2231
4	0.0032	0.4927	0.9515		0.2606	0.0032	0.2442
5	0.0157	0.8184	0.2701	0.2606		0.0383	0.0589
6	0.1566	0.0750	0.0027	0.0032	0.0383		0.0030
7	0.0011	0.1155	0.2231	0.2442	0.0589	0.0030	

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch

The GLM Procedure

Least Squares Means

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 283

Number of Observations Used 283

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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	1.34203883	0.33550971	10.88	<.0001
Error	278	8.57453856	0.03084366		
Corrected Total	282	9.91657739			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.135333	27.03078	0.175624	0.649717

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	1.34203883	0.33550971	10.88	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	1.34203883	0.33550971	10.88	<.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	130.5893305	32.6473326	33.34	<.0001
Error	278	272.1951218	0.9791191		
Corrected Total	282	402.7844523			

R-Square	Coeff Var	Root MSE	HARD Mean
0.324216	27.34666	0.989504	3.618375

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	130.5893305	32.6473326	33.34	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	130.5893305	32.6473326	33.34	<.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	3493.558225	873.389556	92.30	<.0001
Error	278	2630.578126	9.462511		
Corrected Total	282	6124.136351			

R-Square	Coeff Var	Root MSE	TENS Mean
0.570457	-5.818970	3.076120	-52.86364

Source	DF	Type I SS	Mean Square	F Value	Pr > F
LTMSLAB	4	3493.558225	873.389556	92.30	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
LTMSLAB	4	3493.558225	873.389556	92.30	<.0001

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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	0.66606742	1
B	0.52516129	2
E	0.66375000	3
G	0.71546667	4
I	0.67469388	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	0.9715	0.0738	0.7827
2	<.0001		0.0366	<.0001	<.0001
3	0.9715	0.0366		0.4292	0.8703
4	0.0738	<.0001	0.4292		0.2073
5	0.7827	<.0001	0.8703	0.2073	

LTMSLAB	HARD LSMEAN	LSMEAN Number
A	4.32584270	1
B	3.77419355	2
E	3.25000000	3
G	2.57333333	4
I	3.79591837	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 > |t| for H0: LSMean(i)=LSMean(j)

Dependent Variable: HARD

i/j	1	2	3	4	5
1		0.0009	0.0035	<.0001	0.0028
2	0.0009		0.1596	<.0001	0.9086
3	0.0035	0.1596		0.0670	0.1491
4	<.0001	<.0001	0.0670		<.0001
5	0.0028	0.9086	0.1491	<.0001	

LTMSLAB	TENS LSMEAN	LSMEAN Number
A	-57.3662921	1
B	-53.2967742	2
E	-55.4762500	3
G	-49.1813333	4
I	-49.3469388	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		<.0001	0.0971	<.0001	<.0001
2	<.0001		0.0603	<.0001	<.0001
3	0.0971	0.0603		<.0001	<.0001
4	<.0001	<.0001	<.0001		0.7697
5	<.0001	<.0001	<.0001	0.7697	

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 & Lab

The GLM Procedure

Class Level Information

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

Number of Observations Read	283
Number of Observations Used	283

PlotByBatchF.lst

LDEOC Fluoroelastomer

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch & Lab

The GLM Procedure

Dependent Variable: VOLC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	28	2.01309072	0.07189610	2.31	0.0004
Error	254	7.90348667	0.031111609		
Corrected Total	282	9.91657739			

R-Square	Coeff Var	Root MSE	VOLC Mean
0.203003	27.14989	0.176398	0.649717

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	6	0.34150022	0.05691670	1.83	0.0938
LTMSLAB	4	1.27170545	0.31792636	10.22	<.0001
SPECIAL*LTMSLAB	18	0.39988505	0.02221584	0.71	0.7959

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	6	0.22165961	0.03694327	1.19	0.3135
LTMSLAB	4	1.19604476	0.29901119	9.61	<.0001
SPECIAL*LTMSLAB	18	0.39988505	0.02221584	0.71	0.7959

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch & Lab

The GLM Procedure

Dependent Variable: HARD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	28	170.2970270	6.0820367	6.64	<.0001
Error	254	232.4874253	0.9153048		
Corrected Total	282	402.7844523			

R-Square	Coeff Var	Root MSE	HARD Mean
0.422799	26.44048	0.956716	3.618375

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	6	7.2174944	1.2029157	1.31	0.2511
LTMSLAB	4	129.3974491	32.3493623	35.34	<.0001
SPECIAL*LTMSLAB	18	33.6820835	1.8712269	2.04	0.0083

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	6	4.91541588	0.81923598	0.90	0.4990
LTMSLAB	4	68.73504666	17.18376166	18.77	<.0001
SPECIAL*LTMSLAB	18	33.68208351	1.87122686	2.04	0.0083

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch & Lab

The GLM Procedure

Dependent Variable: TENS

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	28	3975.903346	141.996548	16.79	<.0001
Error	254	2148.233005	8.457610		
Corrected Total	282	6124.136351			

R-Square	Coeff Var	Root MSE	TENS Mean
0.649219	-5.501318	2.908197	-52.86364

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SPECIAL	6	497.060405	82.843401	9.80	<.0001
LTMSLAB	4	3151.051000	787.762750	93.14	<.0001
SPECIAL*LTMSLAB	18	327.791941	18.210663	2.15	0.0050

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SPECIAL	6	118.599702	19.766617	2.34	0.0325
LTMSLAB	4	1861.512931	465.378233	55.02	<.0001
SPECIAL*LTMSLAB	18	327.791941	18.210663	2.15	0.0050

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch & Lab

The GLM Procedure

Least Squares Means

SPECIAL	VOLC LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	0.68746364	3
5	0.60882684	4
6	0.69067231	5
7	0.63674444	6
8	0.57200000	7

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
1
2
3
4	.	.	0.1846	0.1846	0.9555	0.3076	0.0911
5	.	.	0.9555	0.1578	0.1578	0.5766	0.5903
6	.	.	0.3076	0.5766	0.2623	0.2623	0.0774
7	.	.	0.0911	0.5903	0.0774	0.2839	0.2839

SPECIAL	HARD LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	3.49318182	3
5	3.77532468	4
6	3.28722506	5
7	3.53944444	6
8	3.30000000	7

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch & Lab

The GLM Procedure

Least Squares Means

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
1
2
3	.	.	.	0.3797	0.5095	0.8636	0.6013
4	.	.	0.3797	.	0.1205	0.3846	0.2007
5	.	.	0.5095	0.1205	.	0.3336	0.9720
6	.	.	0.8636	0.3846	0.3336	.	0.4647
7	.	.	0.6013	0.2007	0.9720	0.4647	.

SPECIAL	TENS LSMEAN	LSMEAN Number
1	Non-est	1
2	Non-est	2
3	-52.8091818	3
5	-52.7521674	4
6	-53.6040607	5
7	-53.4841111	6
8	-50.3390000	7

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
1
2
3	.	.	.	0.9534	0.4025	0.4101	0.0287
4	.	.	0.9534	.	0.3719	0.3748	0.0331
5	.	.	0.4025	0.3719	.	0.8797	0.0034
6	.	.	0.4101	0.3748	0.8797	.	0.0017
7	.	.	0.0287	0.0331	0.0034	0.0017	.

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All Valid Reference Data and All Valid Batch 8 Runs

Analyzed by Elastomer Batch & Lab

The GLM Procedure

Least Squares Means

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

LTMSLAB	VOLC LSMEAN	LSMEAN Number
A	0.64675165	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	.	.	.	<.0001	.
3	0.7445
4	.	<.0001	.	.	.
5	.	.	0.7445	.	.

LTMSLAB	HARD LSMEAN	LSMEAN Number
A	4.26919819	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 & 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
2	.	.	.	<.0001	.
3	0.0774
4	.	<.0001	.	.	.
5	.	.	0.0774	.	.

LTMSLAB	TENS LSMEAN	LSMEAN Number
A	-57.0985865	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: TENS

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

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	5	6	7	8		
A	10	3	8	11	23	32	2	89	
	3.53	1.06	2.83	3.89	8.13	11.31	0.71	31.45	
	11.24	3.37	8.99	12.36	25.84	35.96	2.25		
	100.00	11.11	16.67	26.19	34.33	41.03	18.18		
B	0	20	8	7	10	15	2	62	
	0.00	7.07	2.83	2.47	3.53	5.30	0.71	21.91	
	0.00	32.26	12.90	11.29	16.13	24.19	3.23		
	0.00	74.07	16.67	16.67	14.93	19.23	18.18		
E	0	0	1	1	1	3	2	8	
	0.00	0.00	0.35	0.35	0.35	1.06	0.71	2.83	
	0.00	0.00	12.50	12.50	12.50	37.50	25.00		
	0.00	0.00	2.08	2.38	1.49	3.85	18.18		
G	0	4	20	14	16	18	3	75	
	0.00	1.41	7.07	4.95	5.65	6.36	1.06	26.50	
	0.00	5.33	26.67	18.67	21.33	24.00	4.00		
	0.00	14.81	41.67	33.33	23.88	23.08	27.27		
I	0	0	11	9	17	10	2	49	
	0.00	0.00	3.89	3.18	6.01	3.53	0.71	17.31	
	0.00	0.00	22.45	18.37	34.69	20.41	4.08		
	0.00	0.00	22.92	21.43	25.37	12.82	18.18		
Total	10	27	48	42	67	78	11	283	
	3.53	9.54	16.96	14.84	23.67	27.56	3.89	100.00	