

**APPENDIX A29**

**MODEL SUMMARY FOR REGRESSION OF BURST PRESSURE ON SEALING, PACKAGE, AND BURST TEST PARAMETERS -  
OVERALL**

**Table A29-1. Parameter coefficients and model fit statistics for regression of burst pressure on sealing, package and burst test parameters overall**

Model	Model ID	Dependent Variable	Intercept	Seal Temp	Seal Pressure	Dwell Time	Gap	Tray Height	Tray Volume	Len Width	Tray Area	R Square	Adjusted R Square	Prediction R Square	Mallow's Cp	Akaike's AIC	RMSE	PRESS	PRESS - SSE	Adj RSq - RSq	Cp - P	Model Selected
BM2	BM2-1	BurstPressure	1.25	0.01	0.00	0.11	-1.16	-1.38	0.07	.	-0.03	0.82	0.81	0.80	8	-436.09	0.37	32.54	2.37	0.01	0	TRUE
BM2	BM2-2	BurstPressure	1.25	0.01	0.00	0.11	-1.16	-1.38	0.07	.	-0.03	0.82	0.81	0.80	8	-436.09	0.37	32.54	2.37	0.01	0	
BM2	BM2-3	BurstPressure	1.15	0.01	0.00	0.11	-1.16	-1.32	0.07	-0.02	-0.03	0.82	0.81	0.80	9	-435.11	0.37	32.56	2.53	0.01	0	
BM2	BM2-4	BurstPressure	1.15	0.01	0.00	0.11	-1.16	-1.32	0.07	-0.02	-0.03	0.82	0.81	0.80	9	-435.11	0.37	32.56	2.53	0.01	0	
BM2	BM2-5	BurstPressure	.	0.01	0.01	0.11	-1.12	-1.21	0.06	-0.03	-0.03	0.94	0.94	0.94	8	-431.15	0.38	33.13	2.30	0.00	0	

**Table A29-2. ANOVA statistics for regression of peak burst pressure on sealing, package and burst test parameters overall**

Model	Model ID	N	Model DF	Error DF	Total DF	MSE	SSE	SSR	SST	F Value for the model	Prob>F for the model	t Value for Intercept	Prob>t for Intercept	Model Selected
BM2	BM2-1	225	8	217	224	0.14	30.17	135.78	165.81	122.07	0.00	2.41	0.02	TRUE
BM2	BM2-2	225	8	217	224	0.14	30.17	135.78	165.81	122.07	0.00	2.41	0.02	
BM2	BM2-3	225	8	216	224	0.14	30.03	135.78	165.81	122.07	0.00	2.41	0.02	
BM2	BM2-4	225	8	216	224	0.14	30.03	135.78	165.81	122.07	0.00	2.41	0.02	
BM2	BM2-5	225	8	217	225	0.14	30.84	492.13	522.97	432.87	0.00	.	.	

**Table A29-3. ANOVA statistics for regression of peak burst pressure on sealing, package and burst test parameters overall**

Model	Model ID	t Value for Seal Temp	Prob>t for Seal Temp	t Value for Seal Pressure	Prob>t for Seal Pressure	t Value for Dwell Time	Prob>t for Dwell Time	t Value for Gap	Prob>t for Gap	t Value for Tray Volume	Prob>t for Tray Volume	t Value for Len Width	Prob>t for Len Width	t Value for Tray Area	Prob>t for Tray Area	t Value for Tray Height	Prob>t for Tray Height	Model Selected
BM2	BM2-1	8.02	0.00	0.37	0.71	6.21	0.00	-9.66	0.00	8.71	0.00	-0.99	0.32	-13.33	0.00	-10.06	0.00	TRUE
BM2	BM2-2	8.02	0.00	0.37	0.71	6.21	0.00	-9.66	0.00	8.71	0.00	-0.99	0.32	-13.33	0.00	-10.06	0.00	
BM2	BM2-3	8.02	0.00	0.37	0.71	6.21	0.00	-9.66	0.00	8.71	0.00	-0.99	0.32	-13.33	0.00	-10.06	0.00	
BM2	BM2-4	8.02	0.00	0.37	0.71	6.21	0.00	-9.66	0.00	8.71	0.00	-0.99	0.32	-13.33	0.00	-10.06	0.00	
BM2	BM2-5	14.50	0.00	1.98	0.05	6.65	0.00	-9.33	0.00	8.28	0.00	-1.53	0.13	-13.01	0.00	-9.71	0.00	