

BRDF Data Box Oven Samples
3/30/2012

index of refraction DLC 2.5

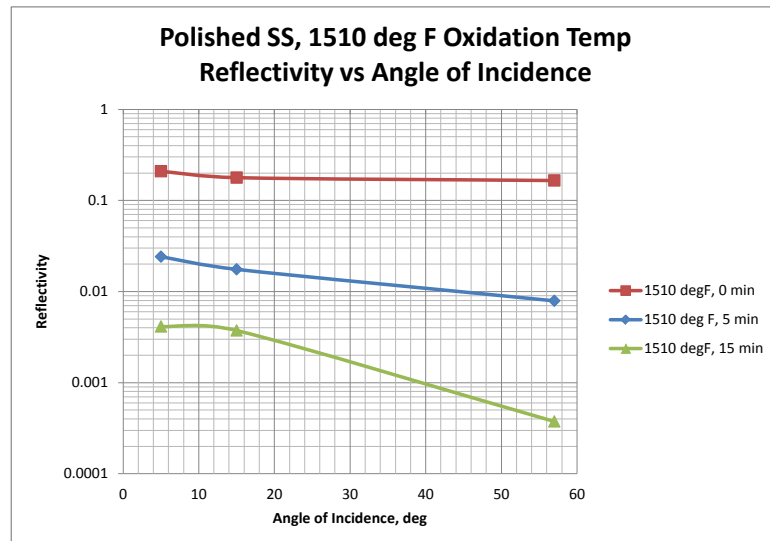
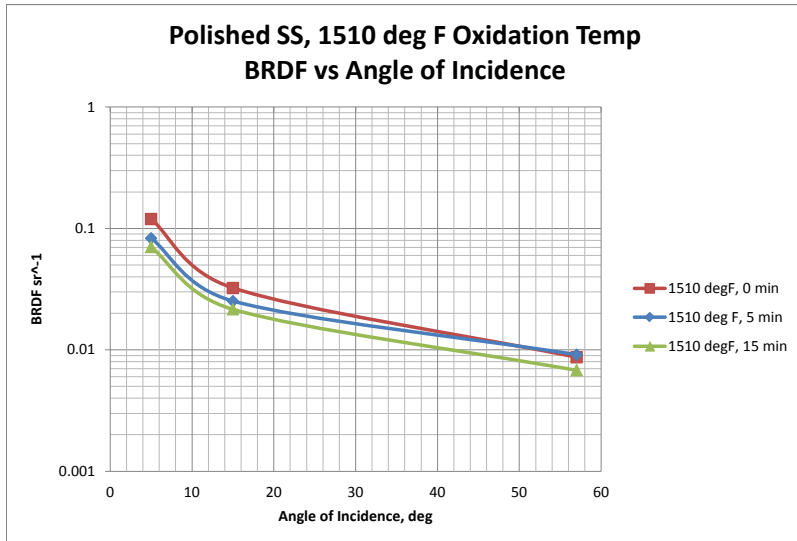
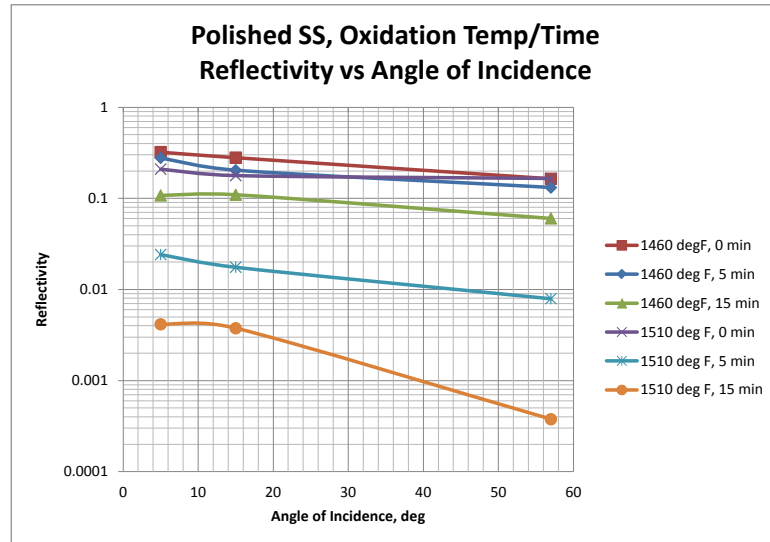
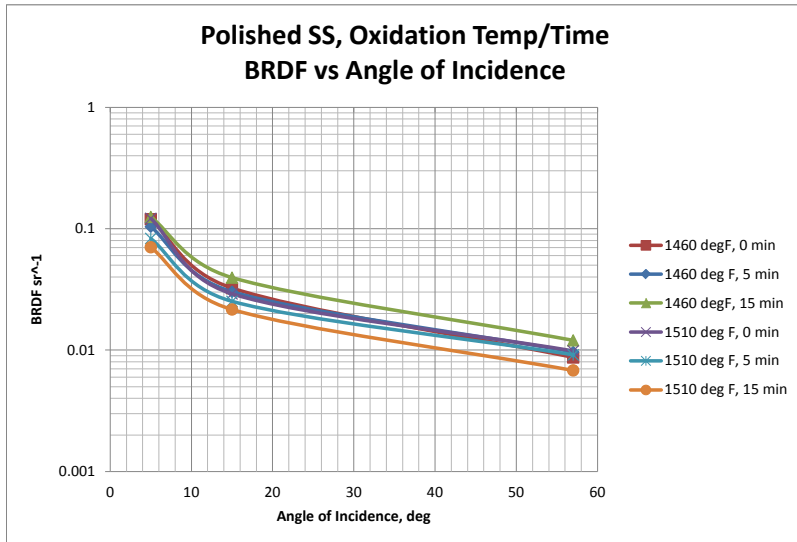
Data index	CASI File	temperature deg F	oxidation time, min	incidence Sample	angle, deg	reflectivity	BRDF	data angle	temperature deg F	oxidation time, min	incidence Sample	angle, deg	reflectivity	BRDF	Theoretical R
1	03091201.CAS	1460	0	1	5	4.4E-01	9.9E-02	10.2							
26	03131213.CAS	1460	0	1	5	2.4E-01	1.3E-01	10.2							
9	03091202.CAS	1460	0	2	5	3.9E-01	1.0E-01	10.2							
33	03131214.CAS	1460	0	2	5	2.7E-01	1.2E-01	10.2							
5	03131215.CAS	1460	0	3	5	2.3E-01	1.4E-01	10.2							
16	03091203.CAS	1460	0	3	5	3.6E-01	1.3E-01	10.2							
	average	1460	0		5	3.2E-01	1.2E-01								
13	03131216.CAS	1460	0	1	15	3.0E-05	3.2E-02	30.08							
23	03121201.CAS	1460	0	1	15	3.1E-01	2.1E-02	30.08							
20	03141201.CAS	1460	0	2	15	2.7E-01	2.9E-02	30.08							
30	03121202.CAS	1460	0	2	15	3.1E-01	2.2E-02	30.08							
2	03121203.CAS	1460	0	3	15	2.8E-01	3.1E-02	30.08							
27	03141202.CAS	1460	0	3	15	2.3E-01	4.0E-02	30.08							
	average	1460	0		15	2.8E-01	2.9E-02								
10	03131201.CAS	1460	0	1	57	3.0E-06	8.8E-03	-56.92							
14	03141205.CAS	1460	0	1	57	1.0E-01	8.3E-03	-56.92							
6	03141204.CAS	1460	0	2	57	1.1E-01	7.3E-03	-56.92							
17	03131202.CAS	1460	0	2	57	2.4E-01	9.1E-03	-56.92							
24	03131203.CAS	1460	0	3	57	2.0E-01	1.3E-02	-56.92							
34	03141203.CAS	1460	0	3	57	5.0E-06	1.3E-02	-56.92							
	average	1460	0		57	1.6E-01	9.8E-03								
31	03131204.CAS	1460	5	1	5	2.2E-01	1.1E-01	10.2							
3	03131205.CAS	1460	5	2	5	2.4E-01	1.0E-01	10.2							
11	03131206.CAS	1460	5	3	5	3.7E-01	1.0E-01	10.2							
	average	1460	5		5	2.8E-01	1.0E-01								
18	03131207.CAS	1460	5	1	15	3.1E-05	3.4E-02	30.08							
25	03131208.CAS	1460	5	2	15	2.6E-01	3.2E-02	30.08							
32	03131209.CAS	1460	5	3	15	3.6E-01	2.5E-02	30.08							
	average	1460	5		15	2.0E-01	3.0E-02								
4	03131210.CAS	1460	5	1	57	9.8E-02	1.1E-02	-56.92							
12	03131211.CAS	1460	5	2	57	1.1E-01	9.3E-03	-56.92							
19	03131212.CAS	1460	5	3	57	1.8E-01	8.5E-03	-56.92							
	average	1460	5		57	1.3E-01	9.6E-03								
29	03141212.CAS	1460	15	1	5	3.2E-05	1.1E-01	10.2							
36	03141213.CAS	1460	15	2	5	1.0E-01	1.2E-01	10.2							
8	03141214.CAS	1460	15	3	5	1.1E-01	1.4E-01	10.2							
	average	1460	15		5	1.1E-01	1.3E-01								
22	03141211.CAS	1460	15	1	15	9.3E-02	3.7E-02	30.08							
15	03141210.CAS	1460	15	2	15	1.1E-01	3.8E-02	30.08							
7	03141209.CAS	1460	15	3	15	1.3E-01	4.4E-02	30.08							
	average	1460	15		15	1.1E-01	4.0E-02								
21	03141206.CAS	1460	15	1	57	6.0E-02	1.3E-02	-56.92							
28	03141207.CAS	1460	15	2	57	5.9E-02	1.1E-02	-56.92							
35	03141208.CAS	1460	15	3	57	6.2E-02	1.2E-02	-56.92							
	average	1460	15		57	6.0E-02	1.2E-02								
37	03191201.CAS	1510	0	1	5	4.0E-06	1.2E-01	10.2							
46	03191202.CAS	1510	0	2	5	2.9E-01	1.1E-01	10.2							
55	03191203.CAS	1510	0	3	5	3.4E-01	1.3E-01	10.2							
	average	1510	0		5	2.1E-01	1.2E-01								
64	03201201.CAS	1510	0	1	15	2.8E-05	3.3E-02	30.08							

Data index	CASI File	temperature deg F	oxidation time, min	incidence Sample	angle, deg	reflectivity	BRDF	data angle	temperature deg F	oxidation time, min	incidence Sample	angle, deg	reflectivity	BRDF	Theoretical R
38	03201205.CAS	1510	0	2	15	2.3E-01	3.4E-02	30.08							
47	03201206.CAS	1510	0	3	15	3.0E-01	3.0E-02	30.08							
average		1510	0		15	1.8E-01	3.2E-02								
56	03201207.CAS	1510	0	1	57	1.5E-01	1.0E-02	-56.92							
65	03201208.CAS	1510	0	2	57	1.7E-01	7.2E-03	-56.92							
39	03201209.CAS	1510	0	3	57	1.8E-01	8.9E-03	-56.92							
average		1510	0		57	1.7E-01	8.7E-03								
48	03211203.CAS	1510	5	1	5	0.035186	0.08409	10.2							
57	03211204.CAS	1510	5	2	5	1.5E-02	8.3E-02	10.2							
66	03211205.CAS	1510	5	3	5	2.2E-02	8.2E-02	10.2							
average		1510	5		5	2.4E-02	8.3E-02								
50	03211211.CAS	1510	5	1	15	2.2E-02	2.7E-02	30.08							
41	03211210.CAS	1510	5	2	15	1.2E-02	2.3E-02	30.08							
67	03211209.CAS	1510	5	3	15	1.9E-02	2.6E-02	30.08							
average		1510	5		15	1.8E-02	2.5E-02								
40	03211206.CAS	1510	5	1	57	7.3E-03	9.6E-03	-56.92							
49	03211207.CAS	1510	5	2	57	7.0E-03	7.8E-03	-56.92							
58	03211208.CAS	1510	5	3	57	9.5E-03	1.0E-02	-56.92							
average		1510	5		57	7.9E-03	9.1E-03								
59	03221201.CAS	1510	10	1	5	0.025455	0.07945	10.2							
68	03221202.CAS	1510	10	2	5	0.028024	0.07736	10.2							
42	03221203.CAS	1510	10	3	5	0.02491	0.07448	10.2							
average		1510	10		5	2.6E-02	7.7E-02								
60	03221205.CAS	1510	10	1	15	0.001679	0.02581	30.08							
69	03221206.CAS	1510	10	2	15	0.002055	0.02586	30.08							
43	03221207.CAS	1510	10	3	15	0.001251	0.02486	30.08							
average		1510	10		15	1.7E-03	2.6E-02								
51	03221204.CAS	1510	10	1	57	0.025099	0.008319	-56.92							
52	03221208.CAS	1510	10	2	57	0.020186	0.008309	-56.92							
61	03221209.CAS	1510	10	3	57	0.021421	0.009636	-56.92							
average		1510	10		57	2.2E-02	8.8E-03								
70	03221210.CAS	1510	15	1	5	4.6E-03	6.8E-02	10.2							
44	03221211.CAS	1510	15	2	5	4.9E-03	7.2E-02	10.2							
53	03221212.CAS	1510	15	3	5	3.0E-03	7.1E-02	10.2	1460	0		5	0.3219825	0.121645	
average		1510	15		5	4.1E-03	7.0E-02		1460	0		15	0.2799976	0.0290733	
62	03221213.CAS	1510	15	1	15	4.4E-03	2.2E-02	30.08	1460	0		57	0.164065	0.0098373	
71	03231201.CAS	1510	15	2	15	3.7E-03	2.2E-02	30.08	1460	5		5	0.278314	0.1037667	
45	03231202.CAS	1510	15	3	15	3.2E-03	2.1E-02	30.08	1460	5		15	0.2038433	0.03024	
average		1510	15		15	3.7E-03	2.2E-02		1460	5		57	0.131366	0.0096403	
54	03231203.CAS	1510	15	1	57	3.7E-04	6.6E-03	-56.92	1460	15		5	0.1076885	0.1250667	
63	03231204.CAS	1510	15	2	57	4.4E-04	6.3E-03	-56.92	1460	15		15	0.109562	0.03954	
72	03231205.CAS	1510	15	3	57	3.2E-04	7.5E-03	-56.92	1460	15		57	0.0603167	0.0120333	
average		1510	15		57	3.8E-04	6.8E-03								
73	03231206DLC.CAS			1	5	5.4E-03	4.2E-05	10.20	1510	0		5	0.2096433	0.1196	
76	03231207DLC.CAS			2	5	4.3E-03	3.1E-05	10.20	1510	0		15	0.1784333	0.0323233	
79	03231208DLC.CAS			3	5	7.0E-06	2.6E-05	10.20	1510	0		57	0.1659543	0.0086957	
average					5	4.8E-03	3.3E-05		1510	5		5	0.024189	0.0830467	
74	03241201DLC.CAS			1	15	1.9E-05	3.0E-07	30.08	1510	5		15	0.0175637	0.0252	
77	03241202DLC.CAS			2	15	2.3E-05	2.9E-07	30.08	1510	5		57	0.007929	0.0091257	
80	03241203DLC.CAS			3	15	1.0E-06	4.3E-07	30.08	1510	15		5	0.0041423	0.0703433	
average					15	2.1E-05	3.4E-07		1510	15		15	0.0037473	0.0216033	
75	03241204DLC.CAS			1	57	4.4E-05	4.6E-07	-56.92	1510	15		57	0.000376	0.0068053	
78	03261201DLC.CAS			2	57	3.4E-05	6.4E-07	-56.92							

Data index	CASI File	temperature	oxidation	incidence		reflectivity	BRDF	data	temperature	oxidation	incidence		reflectivity	BRDF	Theoretical R
		deg F	time, min	Sample	angle, deg			angle	deg F	time, min	Sample	angle, deg			
81	03261202DLC.CAS			3	57	2.3E-05	1.1E-07	-56.92	DLC		5	0.0048465	3.304E-05		
	average				57	3.4E-05	4.0E-07		DLC		15	0.0000021	3.398E-07		
									DLC		57	3.37E-05	4.02E-07		
											5			0.1826	
											15			0.1735	
											30			0.1420	
											57			0.0332	
											67.4			0.0003	
											75			0.0308	
											80			0.1285	



Data index	CASI File	temperature deg F	oxidation time, min	incidence Sample angle, deg	reflectivity BRDF	data angle	temperature deg F	oxidation time, min	incidence Sample angle, deg	reflectivity BRDF	Theoretical R
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Data index	CASI File	temperature	oxidation	incidence	data	temperature	oxidation	incidence	BRDF	data	temperature	oxidation	incidence	BRDF	Theoretical R
		deg F	time, min	Sample	angle, deg	reflectivity	angle	deg F	time, min	Sample	angle, deg	reflectivity	BRDF	Theoretical R	

