

Reflectivity measurement - WHT Primary, before and after washing

Equipment:	uscan reflectometer	
Mirror:	WHT Primary mirror	
Person:	Neil O'Mahony, Tibor Agocs	
Date:	11-12/11/2008	
Lambda (micron):	0.67	
Incident angle (degree):	25	
BW (Bandwidth) limits:	1	0.1

WHT Primary mirror before washing

No#	BSDF - 0°,0° detector position	BSDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
1	9.86E-03	3.33E-03	0.764	78.8	11:20:18	11/11/2008
2	9.86E-03	3.32E-03	0.756	79.3	11:20:22	11/11/2008
3	9.88E-03	3.32E-03	0.767	78.8	11:20:27	11/11/2008
4	1.11E-02	5.02E-03	0.804	79.2	11:20:38	11/11/2008
5	1.11E-02	5.07E-03	0.811	78.9	11:20:43	11/11/2008
6	1.16E-02	5.56E-03	0.787	81.7	11:20:47	11/11/2008
7	7.79E-03	2.40E-03	0.751	71.5	11:20:56	11/11/2008
8	7.76E-03	2.39E-03	0.77	70.5	11:21:00	11/11/2008
9	7.76E-03	2.37E-03	0.749	71.6	11:21:05	11/11/2008
10	1.17E-02	4.63E-03	0.782	83.4	11:21:16	11/11/2008
11	1.17E-02	4.66E-03	0.645	91.8	11:21:21	11/11/2008
12	1.18E-02	4.67E-03	0.699	88.6	11:21:26	11/11/2008
13	9.52E-03	3.69E-03	0.738	77.6	11:21:36	11/11/2008
14	9.50E-03	3.71E-03	0.744	77.1	11:21:40	11/11/2008
15	9.50E-03	3.72E-03	0.749	76.9	11:21:45	11/11/2008
16	1.09E-02	3.85E-03	0.826	79	11:21:53	11/11/2008
17	1.10E-02	3.83E-03	0.828	79.6	11:21:58	11/11/2008
18	7.02E-03	1.95E-03	0.765	68.4	11:22:14	11/11/2008
19	6.97E-03	1.92E-03	0.762	68.4	11:22:19	11/11/2008
20	6.97E-03	1.91E-03	0.805	66.6	11:22:23	11/11/2008
21	1.42E-02	5.36E-03	0.793	91.8	11:22:32	11/11/2008
22	1.45E-02	5.45E-03	0.815	91.5	11:22:37	11/11/2008
23	1.47E-02	5.47E-03	0.831	91.1	11:22:41	11/11/2008
24	1.17E-02	3.76E-03	0.84	82.6	11:22:51	11/11/2008
25	1.17E-02	3.71E-03	0.838	82.7	11:22:55	11/11/2008
26	1.17E-02	3.45E-03	0.841	83.3	11:23:00	11/11/2008
27	1.06E-02	3.68E-03	0.814	78.9	11:23:12	11/11/2008
28	1.06E-02	3.68E-03	0.828	78.2	11:23:16	11/11/2008
29	1.07E-02	3.69E-03	0.846	77.6	11:23:21	11/11/2008
30	9.65E-03	3.38E-03	0.814	75.2	11:23:28	11/11/2008
31	9.71E-03	3.37E-03	0.821	75.2	11:23:32	11/11/2008
32	9.73E-03	3.38E-03	0.818	75.4	11:23:37	11/11/2008
33	8.85E-03	3.07E-03	0.78	73.7	11:23:46	11/11/2008
34	9.12E-03	3.12E-03	0.834	72.4	11:23:50	11/11/2008
35	9.17E-03	3.13E-03	0.834	72.6	11:23:54	11/11/2008
36	8.26E-03	2.65E-03	0.793	71.3	11:24:03	11/11/2008
37	8.31E-03	2.66E-03	0.798	71.3	11:24:08	11/11/2008
average	1.017E-02	3.630E-03	0.790	78.176		
standard dev	1.946E-03	1.018E-03	0.043	6.702		

WHT Primary mirror after washing

No#	BPDF - 0°,0° detector position	BPDF - 50°,180° detector position	reflectivity	rms (Ångstrom)	time	date
13	2.14E-03	2.12E-04	0.84	54.8	13:04:08	11/12/2008
14	2.14E-03	2.12E-04	0.845	54.6	13:04:13	11/12/2008
15	2.22E-03	2.09E-04	0.881	56.7	13:04:17	11/12/2008
16	1.35E-03	1.00E-04	0.886	53.9	13:04:27	11/12/2008
17	1.31E-03	9.72E-05	0.852	54.3	13:04:31	11/12/2008
18	1.29E-03	1.45E-04	0.876	38.3	13:04:35	11/12/2008
19	1.92E-03	2.13E-04	0.837	48	13:04:47	11/12/2008
20	1.92E-03	2.15E-04	0.842	47.6	13:04:51	11/12/2008
21	1.92E-03	2.17E-04	0.832	47.6	13:04:55	11/12/2008
22	3.34E-03	4.96E-04	0.862	53.5	13:05:02	11/12/2008
23	3.34E-03	4.96E-04	0.859	53.5	13:05:07	11/12/2008
24	3.34E-03	4.96E-04	0.852	53.8	13:05:11	11/12/2008
25	2.20E-03	2.53E-04	0.869	49.4	13:05:19	11/12/2008
26	2.20E-03	2.54E-04	0.855	49.6	13:05:24	11/12/2008
27	2.19E-03	2.54E-04	0.855	49.5	13:05:28	11/12/2008
28	1.70E-03	1.74E-04	0.875	46.7	13:05:41	11/12/2008
29	1.72E-03	1.77E-04	0.879	46.7	13:05:45	11/12/2008
30	1.73E-03	1.81E-04	0.855	46.9	13:05:50	11/12/2008
31	1.70E-03	1.82E-04	0.856	45.7	13:05:56	11/12/2008
32	1.72E-03	1.77E-04	0.863	46.9	13:06:00	11/12/2008
average	2.069E-03	2.379E-04	0.859	49.900		
standard dev	6.222E-04	1.190E-04	0.015	4.438		

Notes:

RMS - Root Mean Square surface roughness in Angstrom,

BPDF - Bidirectional scatter distribution function, it is equal to the scattered power per unit solid angle