

Test Mirrors for Ligo (June 2001)

- ◆ Absorption has been measured with a photothermal deflection bench. A mapping was done (average value). The minimum absorption value found on the mapping is also shown.
- ◆ Scattering and transmission were measured with a CASI scatterometer. On the flat mirror 01044/12, there is a point defect at the center position which produces an increase of the scattering level.

SMA Reference	<u>Average</u> Absorption on Ø 16 mm (ppm)	Minimum Absorption (ppm)	<u>Average</u> Scattering on Ø 16 mm (ppm)	<u>Average</u> Scattering on Ø 2 mm (ppm)	Transmission (ppm)
01044/11 Concave	0,95	0,3	4	1,5	85
01044/12 Flat	1,15	0,5	3	7	85
01045/11 Concave	1,05	0,5	7	4,5	85
01045/12 Flat	1,18	0,5	5,1	5	90