

Annex B. Material Thermal Properties

Table B.1. Surface optical properties

Surface finish	α	ϵ
Solar cells	0.91	0.89
MLI	0.035	0.14
Gold plated aluminium	0.02	0.19
Anodized aluminium	0.11	0.50

Table B.2. Bulk thermal properties

Material	Density [kg·cm ⁻³]	Conductivity [W·m ⁻¹ ·K ⁻¹]	Specific heat [J·kg ⁻¹ ·K ⁻¹]
Aluminium, 7075T6	2810	130	960
Battery	2310	28	900
MLI outer wall (teflon)	1410	0.002	1004
PCB	1850	20	900
Mirror	5323	64	322