

ESLON®-DC ESD

POLYCARBONATE PC407AS

Static dissipative (antistatic) plastic sheets

PC407AS | clear

ELECTRICAL

	Method	Unit	ESD-Standard
Surface resistivity	ASTM D-257 DIN 53482 IEC 60093	Ω/\square	$10^6 \sim 10^7$
Electrostatic discharge	MIL B-81705B	s	< 0.1
Dielectric constant	ASTM D-150 DIN 53483 IEC 60250		3

PHYSICAL

Density	ASTM D-792 DIN 53479 ISO 1183	g/cm ³	1.20
Water absorption	ASTM D-270 DIN 53495 ISO 62A	%	0.3
Pencil hardness	JIS K5400		HB
Grid adhesiveness	JIS D0202		100/100

OPTICAL

Light transmittance	ASTM D-1003 ISO 13468	%	83
Haze	ASTM D-1003 ISO 14782	%	2
Refractive index	ASTM D-542 ISO 489		1.59
Distinctness of image (DOI)	JIS K7105	%	90

MECHANICAL

Tensile strength	ASTM D-638 DIN 53455 ISO 527	MPa	67
Tensile elongation at break	ASTM D-638 DIN 53455 ISO 527	%	100
Flexural strength	ASTM D-790 DIN 53452 ISO 178	MPa	90
Flexural modulus	ASTM D-790 ISO 178	MPa	2300
Compressive strength	ASTM D-695 ISO 604	MPa	85.3
Charpy impact strength (23°C)	ISO 179-1	kJ/m ²	80
Notched impact strength (23°C)	ASTM D-256 ISO 180	J/m	847

THERMAL

Heat deflection temperature	ASTM D-648 DIN 53461 ISO 75	°C	135
Coefficient of linear thermal expansion	ASTM D-696 ISO 11359	mm/mm°C	7×10^{-5}
Thermal conductivity	ASTM C-177	W/mK	0.20
Specific heat	ASTM C-177	KJ/kgK	1.26
Heat shrinkage	JIS K6745	%	0
Flammability	UL 94		