

ESLON®-DC ESD
POLYCARBONATE PH407AS

Static dissipative (antistatic) plastic sheets

PH407AS I  clear

ELECTRICAL

	Method	Unit	ESD Hard Coat
Surface resistivity	ASTM D-257 DIN 53482	Ω/□ IEC 60093	10 ⁶ ~ 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			H
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 x 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			V-0 > 6mm

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