

**POLYCARBONATE PC 407 AS**

Static dissipative (antistatic) plastic sheets					
ELECTRICAL	Method			Unit	PC 407 AS Clear <input type="checkbox"/>
Surface resistivity	ASTM D-257	DIN 53482	IEC 60093	$\Omega/\square$	$10^6 \sim 10^7$
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 <sup>3</sup>	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			-	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		2300
Compressive strength	ASTM D-695		ISO 604	MPa	85.3
Charpy impact strength (23°C)			ISO 179-1	kJ/m <sup>2</sup>	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	$7 \times 10^{-5}$
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				-

All reasonable care has been taken in the compilation of the information contained within this literature. All recommendations on the use of our products are made without guarantee as conditions of use are beyond the control of Alperton Engineering Ltd. It is the customer's responsibility to ensure that the product is fit for its intended purpose and that the actual conditions of use are suitable.



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