

**ESLON®-DC ESD**

**PMMA AH105AS**

Static dissipative (antistatic) plastic sheets

**AH105AS I** ■ smoked-grey

**ELECTRICAL**

	Method	Unit	ESD Hard Coat
Surface resistivity	ASTM D-257 DIN 53482	Ω/□ IEC 60093	10 <sup>6</sup> ~ 10 <sup>7</sup>
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>	1.19
Water absorption	ASTM D-270 DIN 53495	ISO 62A	%	0.3
Pencil hardness	JIS K5400			5H
Grid adhesiveness	JIS D0202			100/100

**OPTICAL**

Light transmittance	ASTM D-1003	ISO 13468	%	31
Haze	ASTM D-1003	ISO 14782	%	2
Refractive index	ASTM D-542	ISO 489		1.49
Distinctness of image (DOI)	JIS K7105		%	90

**MECHANICAL**

Tensile strength	ASTM D-638 DIN 53455	ISO 527	MPa	74.5
Tensile elongation at break	ASTM D-638 DIN 53455	ISO 527	%	5
Flexural strength	ASTM D-790 DIN 53452	ISO 178	MPa	117.7
Flexural modulus	ASTM D-790	ISO 178	MPa	2900
Compressive strength	ASTM D-695	ISO 604	MPa	
Charpy impact strength (23°C)		ISO 179-1	kJ/m <sup>2</sup>	20.3
Notched impact strength (23°C)	ASTM D-256	ISO 180	J/m	2.0

**THERMAL**

Heat deflection temperature	ASTM D-648 DIN 53461	ISO 75	°C	90
Coefficient of linear thermal expansion	ASTM D-696	ISO 11359	mm/mm°C	7 x 10 <sup>-5</sup>
Thermal conductivity	ASTM C-177		W/mK	0.21
Specific heat	ASTM C-177		KJ/kgK	1.47
Heat shrinkage	JIS K6745		%	
Flammability	UL 94			

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If not otherwise mentioned all data refer to a sheet thickness of 3mm. All data show the typical values, no guaranteed values for specification purpose. Date of publication:30.04.2022