

ESLON PMMA AC 405 AS

Transparent, antistatic, electrostatically dissipative

Electrical properties	Test method			Unit	Value
Surface resistance	ASTM D-257	DIN 53482	IEC 60093	Ω/\square	$10^6 - 10^7$
Electrostatic discharge	MIL B-81705B			s	<0,1
Dielectric constant	ASTM D-150	DIN 53483	IEC 60250		3
Physical properties					
Density	ASTM D-792	DIN 53479	ISO 1183	g/cm ³	1,19
Water absorption	ASTM D-270	DIN 53495	ISO 62A	%	0,3
Pencil scratch hardness	JIS K5400				2H
Adhesive force coating	JIS D0202			-	100/100
Optical properties					
Light transmission	ASTM D-1003		DIN 13468	%	85
Turbidity value	ASTM D-1003		DIN 14782	%	2
Refractive index	ASTM D-542		ISO 489	-	1,49
Image sharpness (DOI)	JIS K7105			%	90
Mechanical properties					
Tensile strength	ASTM D-638	DIN 53455	ISO 527	Mpa	74,5
Elongation at break	ASTM D-638	DIN 53455	ISO 527	%	5
Flexural strength	ASTM D-790	DIN 53452	ISO 178	Mpa	117,7
Bending modulus	ASTM D-790		ISO 178		2900
Compressive strength	ASTM D-695		ISO 604	Mpa	-
Impact strength (23°C) Charpy			ISO 179	kJ/m ²	20,3
Notched impact strength (23°C) Izod	ASTM D-256		ISO 180	J/m	2,0
Thermal properties					
Heat resistance	ASTM D-648	DIN 53461	ISO 75	°C	90
Linear coefficient of expansion	ASTM D-696		ISO 11359	mm/mm °C	7×10^{-5}
Thermal conductivity	ASTM C-177			W/mK	0,21
Self-heating	ASTM C-177			KJ/kgK	1,47
Heat shrinkage	JIS K6745			%	-
Flammability	UL 94				-

Unless otherwise stated, all values refer to a panel thickness of 3mm. The values given are average values that are backed up by continuous statistical tests. They serve only as information about our products and are intended as an aid to material selection. They do not constitute a legally binding guarantee of specific properties or suitability for specific applications.