



# ESLON® DC PLATES

Dissipative Poly Vinyl Chloride (PVC) / PMMA (Acrylic) / Polycarbonate (PC)



\*\* ESLON® is the registered trademark of

**SEKISUI**

**ESLON DC®** Plates are available in three base materials: PVC, Acrylic and Polycarbonate. ESLON DC is comprised of clear plastic sheet coated on both sides with dissipative, transparent surface two-microns in thickness, providing surface resistivity in the dissipative range of  $10^{6-7}$  Ohms/square.

**ESLON DC®** Plate is also heat-formable using conventional "drape forming" and "wire forming" methods, allowing two-dimensional bends up to 90° as well as compound curves.

The electrical, physical and optical properties - and formability - of **ESLON DC®** Plate make it suitable for a broad variety of electronics manufacturing applications including: ESD safe machine covers, various kinds of clean room glazing, ESD work stations, microelectronics and test equipment for circuit boards.

## PRODUCT COLORS:

Clear Transparent

GENERAL PROPERTIES	Test Methods	PVC (C 401 AS) Typical Values	PMMA (AC 405 AS) Typical Values	PC(PC 407 AS) Typical Values
<b>PHYSICAL</b>				
Specific Gravity (g/cm <sup>3</sup> )	ASTM D-792	1.4	1.19	1.2
Water Absorption, 24 hrs (%)	ASTM D-270	0.03	0.3	0.3
Pencil Hardness	JIS K 5400	H	2H	HB
<b>MECHANICAL</b>				
Tensile Stress (N/mm <sup>2</sup> )	ASTM D-638	64	74.5	67
Tensile Elongation, Break (%)	ASTM D-638	50	5	100
Flexural Strength, Yield (N/mm <sup>2</sup> )	ASTM D-790	90	117.7	90
Flexural Modulus (N/mm <sup>2</sup> )	ASTM D-790	2980	2900	2300
Impact Strength at 23°C (kJ/m <sup>2</sup> )	ISO 179	3.1	20.3	80
IZOD Impact Strength, Notched (J/m)	ASTM D-256	29.5	2	847
<b>THERMAL</b>				
Linear Expansion Coefficient (1/°C)	ASTM D-696	$7.0 \times 10^{-5}$	$7 \times 10^{-5}$	$7 \times 10^{-5}$
Deflection Temperature (°C)	ASTM D-648	60	90	135
Thermal Conductivity (W/mK)	ASTM C-177	0.16	0.21	0.2
Flammability Rating	UL-94	V-0	-	-
<b>ELECTRICAL</b>				
Surface Resistivity (ohms/sq)	ASTM D-257	$10^6 - 10^7$	$10^6 - 10^7$	$10^6 - 10^7$
Electrostatic Discharge (sec.)	MIL B-81705B	< 0.1	< 0.1	< 0.1
Dielectric Constant	ASTM D-150	3	3	3
<b>OPTICAL</b>				
Transmittance (%)	ASTM D-1003	73	85	83
Haze Value (%)	ASTM D-1003	4	2	2
Refraction Index	ASTM D- 542	1.53	1.49	1.59
Image Sharpness (OPI) (%)	JIS K 7105	90	90	90

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.

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