



# ESLON® DC PLATES

Anti-Static 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 conductive, transparent surface two-microns in thickness, providing surface resistivity in the static 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-570	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	63.7	74.5	64.7
Tensile Elongation, Break (%)	ASTM D-638	40 - 70	5	100
Flexural Strength, Yield (N/mm <sup>2</sup> )	ASTM D-790	98.1	117.7	93.2
Modulus of Elasticity (N/mm <sup>2</sup> )	ASTM D-638	2800	3300	2200
Flexural Modulus (N/mm <sup>2</sup> )	ASTM D-790	3400	2900	2600
Impact Strength at 23°C (kJ/m <sup>2</sup> )	JIS K 7110	2.9	2	83.4
IZOD Impact Strength, Notched (J/m)	ASTM D-256	29.5	20.3	847
<b>THERMAL</b>				
Linear Expansion Coefficient (l/°C)	ASTM D-696	$6.8 \times 10^{-5}$	$7 \times 10^{-5}$	$7 \times 10^{-5}$
Deflection Temperature (°C)	ASTM D-648	60 - 65	90	135
Thermal Conductivity (W/mK)	ASTM C-177	0.16	0.21	0.2
Flammability Rating	UL-94	V-0	HB	HB
<b>ELECTRICAL</b>				
Surface Resistivity (ohms/sq)	ASTM D-257	$10^6 \times 10^7$	$10^6 \times 10^7$	$10^6 \times 10^7$
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	75	85	80

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.