

## ESLON-DC TECHNICAL CHARACTERISTICS



### STATIC DISSIPATIVE (CONDUCTIVE) PLASTIC SHEETS

|         |              |
|---------|--------------|
| TYPE    | PMMA         |
| CODE    | AC 405 AS    |
| COLOUR  | clear        |
| VERSION | ESD-Standard |

| ELECTRICAL                    | METHOD       |           |
|-------------------------------|--------------|-----------|
| Surface Resistivity           | ASTM D-257   | DIN 53482 |
| Electrostatic Discharge       | MIL B-81705B |           |
| Dielectric Constant           | ASTM D-150   | DIN 53483 |
| PHYSICAL                      |              |           |
| Specific Gravity              | ASTM D-792   | DIN 53479 |
| Water Absorption              | ASTM D-570   | DIN 53495 |
| Pencil Hardness Surface       | JIS K 5400   |           |
| Adhesion Strength Surface     | JIS D 0202   |           |
| OPTICAL                       |              |           |
| Transmittance (Clarity)       | ASTM D-1003  |           |
| Refractive Index              | ASTM D-1003  |           |
| Haze                          | ASTM D-542   |           |
| Distinctness of Image         | JIS K 7105   |           |
| MECHANICAL                    |              |           |
| Tensile Strength              | ASTM D-638   | DIN 53455 |
| Tensile Elongation, Break     | ASTM D-638   | DIN 53455 |
| Flexural Strength, Yield      | ASTM D-790   | DIN 53452 |
| Flexural Modulus              | ASTM D-790   |           |
| Compressive Strength          | ASTM D-695   |           |
| Charpy Impact Strength (23°C) | JIS K 7110   |           |
| Notched IZOD Impact Strength  | ASTM D-256   |           |
| THERMAL                       |              |           |
| Deflection Temperature        | ASTM D-648   |           |
| Linear Expansion Coefficient  | ASTM D-696   |           |
| Heat Conductivity             | ASTM C-177   |           |
| Specific Heat                 | ASTM C-177   |           |
| Heat Shrinkage                | JIS K 6745   |           |
| Flammability                  | UL-94        |           |

| UNIT               |                    |
|--------------------|--------------------|
| $\Omega / \square$ | $10^6 \sim 10^7$   |
| sec                | < 0.1              |
| -                  | 3                  |
| g/cm <sup>3</sup>  | 1.19               |
| %                  | 0.3                |
| Skala              | 2 H                |
| -                  | 100/100            |
| %                  | 85                 |
| %                  | 3                  |
| -                  | 1.49               |
| %                  | 85                 |
| N/mm <sup>2</sup>  | 74.5               |
| %                  | 5                  |
| N/mm <sup>2</sup>  | 117.7              |
| N/mm <sup>2</sup>  | 2900               |
| N/mm <sup>2</sup>  | -                  |
| kJ/m <sup>2</sup>  | 2.0                |
| J/m                | 20.3               |
| °C                 | 90                 |
| l/°C               | $7 \times 10^{-5}$ |
| W/mK               | 0.21               |
| kJ/kgK             | 1.47               |
| %                  |                    |
| -                  |                    |

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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.  
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