

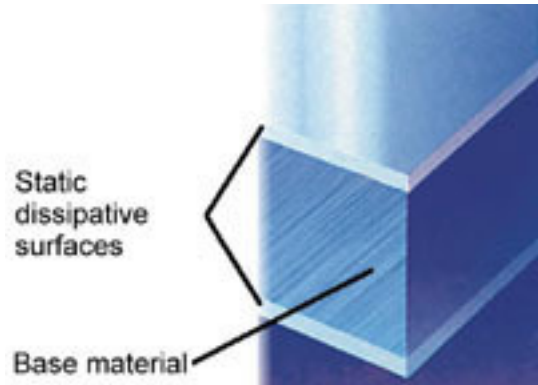
Dissipative Polycarbonate Sheets DPC-300  
 (Part No: SDPC# - #PK)

DPC-300 is made of transparent, two side coated permanent static dissipative material.  
 The dissipative property reduces particle attraction and the generation of electrostatic fields.

- Complies with IEC 61340-5-1
- High impact
- Machinable
- Can be thermoformed
- For EPA's and Cleanrooms
- **Colour:** Hint of blue
- Release film for protection during transport.=

**Application:**

- Machine covers
- Cleanroom Partitions
- Protection hoods
- Conveyor covers



**Product qualification according to IEC 61340-5-1 Ed. 1.0 (2007-08):**

|   | Test Method   | Limits                  | Typical values       |
|---|---------------|-------------------------|----------------------|
| Resistance to groundable point<br>$R_{gp}$  | IEC 61340-2-3 | $<1 \times 10^9 \Omega$ | $10^5 - 10^8 \Omega$ |
| Point to Point resistance<br>$R_{p-p}$  | IEC 61340-2-3 | $<1 \times 10^9 \Omega$ | $10^5 - 10^8 \Omega$ |
| <i>Environmental conditions <math>12 \pm 3\%</math> and <math>23 \pm 2^\circ C</math> (conditioning <math>&gt;48</math> Std.)</i> |               |                         |                      |

**Additional Information:**

- The surface of the material should be grounded to allow static dissipation.
- **Cutting tolerance according to DIN EN ISO 11963**

We believe all the information in these pages including technical data to be reliable. However we make no warranties, expressed or implied and assume no liability regarding any use of this information.

**Properties:**

|  | <b>DPC-300</b>   | <b>Test Method</b> |
|--|--|--------------------|
| Standard size                                    | 2.000 x 1.000mm  |                    |
| Standard thickness                               | 3, 4, 5, 6, 8 and 10mm                                   |                    |
| Thickness of Dissipative coating                 | <1,25µm  |                    |
| Density  | 1,2 g/cm <sup>3</sup>                                    | DIN EN ISO 1183    |
| Tensile strength                                 | 60 N/mm <sup>2</sup>                                     | DIN EN ISO 527     |
| Elongation at break                              | 110%   | DIN EN ISO 527     |
| Flexural modulus                                 | 2200 N/mm <sup>2</sup>                                   | DIN EN ISO 527     |
| Impact strength (kJ/m <sup>2</sup> )             | No break   | DIN EN ISO 179     |
| Abrasion resistance (500g/CS10, 500 cycles)      | >10%   |                    |
| Vicat softening point VST/B50                    | 150°C  | DIN EN ISO 306     |
| Thermal endurance HDT/A (1,8 N/mm <sup>2</sup> ) | 135°C  | DIN EN ISO 75      |
| Max.cont.service temperature                     | 115°C  | DIN 53446          |
| Coefficient of thermal expansion (α) 0-50°C      | 65 x 10 <sup>-6</sup> 1/K                                | DIN 53752          |
| Thermal conductivity                             | 0,21W/mK   | DIN 52612          |
| Transmittance 380 – 780nm<br>D = 3 mm            | > 75%  | DIN 5036           |
| Total haze                                       | <5 %   | ASTM-D-1003        |
| Flammability                                     | Class B1 (<6 mm thickness)<br>Class B2 (≥6 mm thickness) | DIN 4102           |

**Chemical resistance:**

The samples were immersed in the specified chemicals for 24 - 72 hours at 20°C room temperature and then visually examined.

| <b>Chemical</b>   | <b>Concentration</b> | <b>Resistant</b> | <b>Not resistant</b> |
|-------------------|----------------------|------------------|----------------------|
| Acetic acid       | 10%                  | O                |                      |
| Sulphuric acid    | 98%                  |                  | X                    |
| Nitric acid       | 65%                  |                  | X                    |
| Hydrochloric acid | 32%                  | O                |                      |
| Ammonia           | 25%                  | O                |                      |
| Acetone           | 100%                 |                  | X                    |
| Butylacetate      | 100%                 |                  | X                    |
| Ethanol           | 100%                 | O                |                      |
| Isopropyl         | 100%                 | O                |                      |
| Nitro thinner     | 100%                 |                  | X                    |
| Toluol            | 100%                 | O                |                      |
| Benzine           | 100%                 | O                |                      |
| Water             | 100%                 | O                |                      |
| Spline oil        | 100%                 | O                |                      |

***O Neither the conductive coating nor the basic material will be damaged.***

**Cleaning instructions:**

Wipe carefully with a soft cloth using the following:

- Distilled water for light cleaning
- Alcohol, diluted in water for dirty surface
- Isopropanol, diluted in water for very dirty surface

**Commercially available glass cleaner may also be used after carefully checking on a small surface.**

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## Supplier statement for Restriction of Hazardous Substances

We hereby confirm, that according to the supplier the homogeneous materials that

### **DPC-300 static dissipative plates (part no.: SDPC# - #PK)**

consist of, do not contain the following substances:

Chrome VI  
Cadmium  
Mercury  
Lead  
Polybrominated diphenyl ethers (PBDEs)  
Polybrominated biphenyls (PBBs)

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