

Dissipative Polystyrene - IDPPS

(Part No.: 5216.x)



Static dissipative polystyrene sheets for vacuum forming.

- Safe storage of ESD sensitive devices
- Made of IDP (Inherently Dissipative Polymers)
- Multilayer material
- Permanently static dissipative
- No migration
- Dissipation through network forming
- Humidity independent
- Complies with EN 61340-5-1
- Colour: yellow and natural (milky) - (other colours available on request)
- Recyclable



Available in rolls and plates

Width range: 350 – 1200 mm
Thickness range: 0,4 – 1,8 mm (rolls)
1,0 – 5,0 mm (plates)



Electrical properties:

	Test standard	Typical values	Requirements
Surface resistance R_S Point to point resistance R_P	EN 61340-5-1 EN 61340-2-3	10^9 to $10^{10} \Omega$	$10^5 \leq R_S \leq 10^{11} \Omega$ EN 61340-5-1
Static decay	EN 61340-5-1 EN 61340-2-1	< 1 sec.	< 2 sec.

Technical Information

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Mechanical properties:

	Test method	Value
Density	ISO 1183	1,05 g/cm ³
Heat deflection temperature (0,45 Mpa/120°C/h)	ISO 75 B	80 °C
Vicat softening temperature 5kg/120°C	ISO 306 B	89 °C
Flexural modulus (3-point)	ISO 178	1600 Mpa
Tensile strength at yield	ISO 527	16 Mpa
Tensile strength at break	ISO 527	24 Mpa
Elongation at break	ISO 527	60 %
Impact strength Izod (23°C)	ISO 180/1A	10,2 kJ/m ²

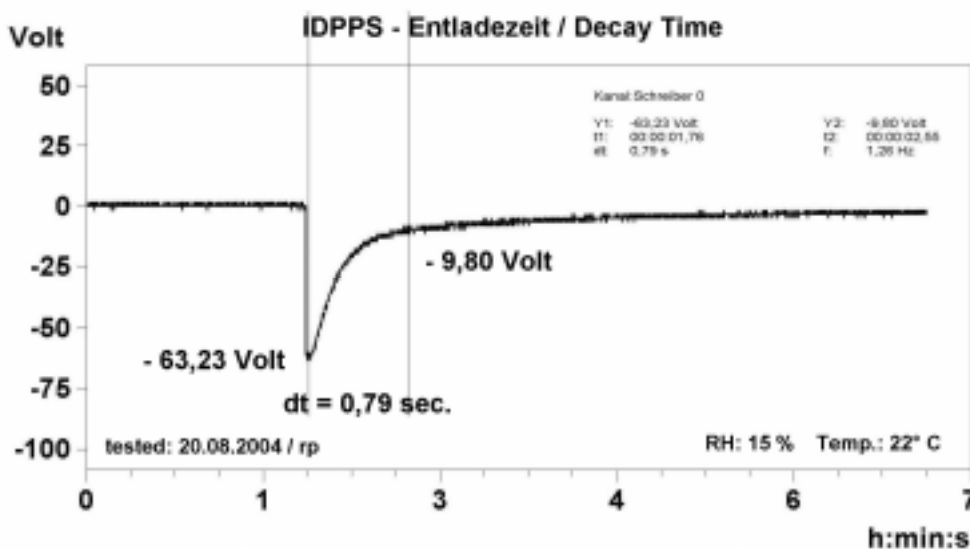


Vacuum formed IDP tray sample

Vacuum forming:

- Use preheating on both sides for better results
- Avoid excessive heating which may degrade the material electrical properties

Static decay time measurement according to EN 61340-5-1:



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