

# Datum Carrier Plate (DCP)

## Product Datasheet

### Overview

- DCP is a composite-thermoset plastic made of high temperature glass fibre material and high performance epoxy resin, available in Electro Static Discharge (ESD) and non-ESD versions offering high chemical-resistance with a long service life.
- DCP-ESD also offers an average cycle-life of up to 10,000 cycles depending on actual process environment allowing minimal fixture renewal and maximizing productivity.

### Customers feedback

- Excellent machinability – extends life of the tooling
- 1mm wall and floor thickness (small areas)
- Small fibre composition prevents warping
- Standard cleaning – no break down, chipping or peeling
- Quick delivery

	DCP – ESD	DCP – ESD
Colour	Black	Grey
Anti-static	✓	✓
Density (g/cm <sup>3</sup> )	1.85	1.85
Flexural Strength (Mpa) - perpendicular 3 point support	360	360
Water Absorption (%)	< 0.2%	< 0.2%
Coefficient of Linear Expansion (10 <sup>-6</sup> /K) (30°C - 200°C)	11	11
Thermal Conductivity (W/m <sup>2</sup> K)	0.25	0.25
Maximum operating Temperature (°C) 10-20 seconds	350	350
Continuous Operating Temperature (°C)	280	280
Surface Resistivity (ohms)	10 <sup>5</sup> - 10 <sup>8</sup>	10 <sup>5</sup> - 10 <sup>8</sup>
Specific Heat Capacity (J.kgK)	930	930
Barcol Hardness	80	80
Thickness Available (mm)	3,4,5,6,8,10,12	3,4,5,6,8,10,12
Thickness Tolerance	±0.10mm	±0.10mm
Flatness Tolerance	±0.10mm	±0.10mm
Parallelism	±0.10mm	±0.10mm

