

## TECHNICAL DATA SHEET

# High-tech plastic type CO

### General notes:

- » Very hard, rigid, high tensile and flexural strength, creep resistance
- » High heat capability (230-260°C), good dimension stability, low thermal linear expansion coefficient
- » excellent chemical resistance (organic solvent, oils, grease, fuels, acids and alkalis); not resistant only to hydrochloric acid and oxidizing agents, excellent resistance to thermal ageing, very low moisture absorption
- » ESD Safe static dissipative material
- » Typical applications include handling of EOS/ESD sensitive components, handling of components during thermal, chemical and soldering processes.

## Mechanical properties

Flexural modulus +23°C	<b>11700 MPa</b>	<i>ASTM D 790</i>
Flexural modulus +60°C	<b>10500 MPa</b>	<i>ASTM D 790</i>
Flexural modulus +90°C	<b>8500 MPa</b>	<i>ASTM D 790</i>
Flexural modulus +120°C	<b>6000 MPa</b>	<i>ASTM D 790</i>
Tensile strength +23°C	<b>132 MPa</b>	<i>ISO 527</i>
Tensile strength +60°C	<b>118 MPa</b>	<i>ISO 527</i>
Tensile strength +90°C	<b>115 MPa</b>	<i>ISO 527</i>
Tensile strength +120°C	<b>95 MPa</b>	<i>ISO 527</i>
Rockwell hardness M	<b>99</b>	<i>ASTM D 785</i>
Izod - Impact strength (notched) +23°C:	<b>75 J/m</b>	<i>ASTM D 256</i>
Charpy-Impact strength (unnotched) +23°C	<b>16 kJ/m²</b>	<i>DIN 53453</i>

## Thermal properties

Temp. of defl. under load (1.80 MPa)	<b>263 °C</b>	<i>ASTM D648</i>
Temp. of defl. under load (0.45 MPa)	<b>278 °C</b>	<i>ASTM D648</i>
Vicat softening temperature (50°C/h 50N)	<b>244 °C</b>	<i>ISO 306</i>
Coef. of lin. therm expansion, normal	<b>2,80 E-5/°C</b>	<i>ASTM D 696</i>
Continuous Use Temperature	<b>200°C</b>	<i>20'000 h</i>
Short Time Temperature	<b>230°C</b>	

## Electrical properties

Surface resistivity	<b>10<sup>6</sup> -10<sup>8</sup> Ohm</b>	<i>100 V</i>
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