



**Properties AN2551 polycarbonate P/N AN2551**

- low weight and high impact resistance, polycarbonate selected by aircraftplugs.
- Physical Properties Density ( $\rho$ ) 1.20–1.22 g/cm<sup>3</sup>
- Flammability V0-V2
- Water absorption – Equilibrium (ASTM) 0.16–0.35%
- Water absorption – over 24 hours 0.1%
- Radiation resistance Fair
- Ultraviolet (1-380nm) resistance Fair
- Mechanical Properties
- Tensile strength ( $\sigma$ ) 55–75 MPa
- Elongation ( $\epsilon$ ) at break 80–150%
- Compressive strength ( $\sigma_c$ ) >80 MPa
- Hardness – Rockwell M70
- Abrasive resistance – ASTM D1044 10–15 mg/1000 cycles
- Coefficient of friction ( $\mu$ ) 0.31
- Glass transition temperature ( $T_g$ ) 147 °C (297 °F)
- Heat deflection temperature 0.45 MPa: 140 °C (284 °F)
- 1.8 MPa: 128–138 °C (262–280 °F)
- Upper working temperature 115–130 °C (239–266 °F)
- Lower working temperature –40 °C (–40 °F)
- Thermal conductivity (k) at 23 °C 0.19–0.22 W/(m·K)
- Specific heat capacity (c) 1.2–1.3 kJ/(kg·K)
- Electrical Properties
- Dielectric constant ( $\epsilon_r$ ) at 1 MHz 2.9
- Permittivity ( $\epsilon$ )  $2.568 \times 10^{-11}$  F/m
- Permeability ( $\mu$ ) at 1 MHz 1.089(2)  $\mu$ N/A<sup>2</sup>
- Dissipation factor at 1 MHz 0.01
- Surface resistivity 1015  $\Omega$ /sq

Pictures and data are non binding and can be changed by the manufacturer without notice

Registered plug / Version 1.3 / Pictures and data are non-binding and can be changed by the manufacturer without notice

**Aircraftplugs®**

Kruisboommolenstraat 7/9 - Industrialzone strohof- 8800 Roeselare - Belgium

☎ +32-51.77.99.19 - FAX : +32-51.79.02.53

E-mail : [info@aircraftplugs.com](mailto:info@aircraftplugs.com)

[www.aircraftplugs.com](http://www.aircraftplugs.com)