

POLYCARBONATE

SPECIFICATIONS SHEET

DETAILS

Chemical Name: Polycarbonate

Abbreviation: PC

Properties (Colour): Crystal/Transparent, Opaque, Smoked (Brown) and Other

Properties (Form): Rod, Plate

Machining: Excellent

Types: Clear. Coloured. Mirrored. Abrasion-Resistant. Anti-Static. More.

Chemical Resistance: Good chemical resistance against diluted acids, aliphatic hydrocarbons

and alcohols. Moderate chemical resistance against oils and greases

Chemical Resistance: Acetals have good resistance to solvents and lubricants but are attacked

by strong acids and alkalis.

KEY BENEFITS

- · High impact strength
- · Dimensional stability
- Optical clarity
- Moldable
- Durable

- · Excellent chemical resistance
- Lightweight
- Light transmission
- UV resistant
- Long lasting performance in outdoor environments

MECHANICAL PROPERTIES

1.20
55-70
60-100
2200
-
NO BREAK
100
18
0.52-0.58

POLYCARBONATE

(CONT.)

THERMAL PROPERTIES

Melting Point °C	160
Glass Transition Temperature °C	145
Thermal Conductivity W/M°C	0.19
Specific Heat J/(g.K)	1.2
Coefficient of Linear Expansion α 10-6 .°K	66-70
Safe Working Temp. Short Term °C	135
Safe Working Temp. Continuous °C	115
Minimum Working Temperature °C	-130

ELECRICAL PROPERTIES

Dielectric Constant Î106 Hz	3
Dielectric loss Factor tand 106 Hz	0.006
Volume Resistance W.cm	10141016
Surface Resistance W	1015
Dielectric Strength kV/mm	27
Moisture Absorption % (at 50%RH)	0.2

^{*}Whilst all care has been taken to provide accurate & up to date information, we cannot provide legal certification of properties. We recommend that this information be used as a design guide only. Actual testing should be undertaken to confirm data if certification is required.*

