Technical Specification Sheets

T: +44 (0) 116 289 3343 E: info@facadecreations.co.uk W: www.facadecreations.co.uk
Registered Office Address: 124 City Road, London, England, EC1V 2NX. Registered in England, Company Number: 16267073

Chemical Designation
PC (Polycarbonate)

Colour
natural

Density
1.75 g/cm^3

Fillers
glass fibres

Main features
- very good dimensional stability
- very good mechanical strength
- low moisture absorption

Target Industries
- automotive industry
- mechanical engineering
- sporting goods

The material is in the phase of further development. The characteristic values of this product may change.

General material information	*parameter*	*value*	*unit*	*norm*		*comment*
Fibre type		E-Glass		-		
Fibre architecture		US 7781		-		
Fibre areal weight		296	g/m²	-		
Fibre volume content		50	%	-		
Resin weight content		32.4	%	-		
Areal weight finished product		438	g/m²	-		
Material widths		1270	mm	-		
ply thickness (consolidated)		0.24	mm	-		
Mechanical properties	***parameter***	***value***	***unit***	***norm***		***comment***
Tensile strength		450	MPa	ISO 527-4	1)	(1) measured on pressed plate (2) measured on pressed plate (3) measured on pressed plate (4) measured on pressed plate
Modulus of elasticity (tensile test)		24000	MPa	ISO 527-4	2)	
Flexural strength		660	MPa	ISO 14125	3)	
Modulus of elasticity (flexural test)		22000	MPa	ISO 14125	4)	
Thermal properties	***parameter***	***value***	***unit***	***norm***		***comment***
Glass transition temperature		143	°C	DIN EN ISO 11357		(1) approximate value
Service temperature	short term	140	°C	-		
Service temperature	long term	120	°C	-		
Thermal expansion (CLTE)	in 0° and 90° direction	5	10^{-6} K^{-1}	-	1)	
Predrying	***parameter***	***value***	***unit***	***norm***		***comment***
Drying temperature		120	°C	-		
Drying time		3	h	-		