



Material: Engineering PC

Strong amorphous thermoplastic with excellent mechanical strength, creep resistance and impact strength. It is a "Non optical" industrial quality polycarbonate.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Translucent
Density	ISO 1183	g/cm ³	1.20
Water Absorption - saturation in air (23°C/50%RH)	-	%	0.15
Water Absorption - saturation in water (23°C)	-	%	0.35
Tensile strength* ¹	ISO 527	N/mm ²	70
Tensile modulus of elasticity* ¹	ISO 527	N/mm ²	2400
Elongation at break* ¹	ISO 527	%	>50
Impact - Charpy* ¹	179/1eU	kJ/m ²	No break
Impact – Izod notched	180/2A	kJ/m ²	9
Hardness	Rockwell Shore D	-	M75
Melt point	-	°c	T _G =150
Max service temp in air short periods	-	°c	135
Max service temp continuously for 20000hrs	-	°c	115
Linear thermal expansion coefficient	-	K ⁻¹ x10 ⁻⁵	6.5
Thermal Conductivity	-	W/(K.m)	0.21
Flammability (6mm thickness)	-	-	HB
Volume resistivity* ¹	IEC93	Ohm.cm	>10 ¹⁵
Dielectric strength* ¹	IEC243	Kv/mm	25
Outside applications – UV resistance	-	-	C
Acids – strong (Ph<3)	-	-	C
Alkalis – strong (pH>11)	-	-	B
Chlorinated Hydrocarbons	-	-	A
Hot Water	-	-	B
‘A’ – Acceptable service, ‘B’ – Limited, ‘C’ – Unacceptable			
* ¹ Measured on dry test specimens (where applicable)			

Availability:

Rod, 1m & 3m long – 6-200mm diameter

Plate, 1m & 3m long x 620mm - 15-50mm thickness

Applications:

Safety glazing, Insulating parts for electrical engineering, Components for the food, medical and pharmaceutical industries

Tel: 01604 700 880

Web: www.abgrp.co.uk

Email: sales@abgrp.co.uk

The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.