



The Plastics Sheets Specialist

## Polycarbonate Sheet - Embossed

### PC Embossed

Optima+ polycarbonate (PC) solid embossed sheets enhance toughness and disperse the reflected light from the sheet surface to create a soft appearance thereby reducing light pollution. The finish provides a graceful appearance, yet is abrasion resistant, making it suitable for various applications.

The embossed sheets are light weight and easy to install and fabricate. They offer good light diffusion, are flame retardant and provide heat and sound insulation. The sheets are weather resistance and offer protection from UV radiations (not turning yellow after sun exposure) thereby making them suitable for outdoor usage. They provide high resistance to impact or fracture and are virtually unbreakable. Optima+ polycarbonate (PC) solid embossed sheets are easy to fabricate and provide excellent thermoforming capabilities. They are available in a variety of colours

### Typical Property Values

Property	Test Method	Test Condition	Unit	Result
Transmittance	-	-	%	60-70
Tensile Strength	ASTM D638	-	N/mm <sup>2</sup>	>=62
Tensile Stress at Break		-	MPa	-
Flexural Strength	ASTM D790	-	N/mm <sup>2</sup>	100
Flexural Modulus		-	MPa	2400
Tensile Elongation at Break	-	-	%	-
Impact Strength	-	-	J/m	400
Coefficient of Thermal Expansion	ASTM D1525	-	mm/m°C	0.065
Heat Conductivity	-	-	W/m°C	0.21
Service Temperature	-	-	°C	-40°C - +120°C
Sound Insulation	-	3mm thick sheet	-	28Db decrease

### PETG Specifications

Property	Specifications
Thickness	4.0mm - 6.0mm
Width	1.22m - 2.1m
Length	Sheet: 2.44m (or any specific length)

#### Remarks

- The above reported values are based on material thickness of 0.5mm unless otherwise specified.
- The data presented above represents values from our testing of the material. It is the responsibility of the user to test and confirm our materials are suitable for their intended applications. All information and technical assistance is given without warranty or guarantee and is subject to change without notice.
- Unless otherwise agreed to in writing, all products are sold strictly pursuant to our standard conditions of sale.
- Please contact your Optima+ sales representative for any questions or enquiries regarding special applications.



QHK/00244



HK06/01460

# Optima+

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### OptimaPlus Asia

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