

POLYCARBONATE HARDCOAT Product Information

Product Description

Polycarbonate hardcoat has a unique silicone Hard Coat with:

-High abrasion resistance

-UV resistance

- High transparency

-High impact resistance

Applications

Machine Guards Noise Walls
Prison Windows Bus Shelters

Delivery Program

SHEET

Thicknesses ranging from 3mm to 6mm.

10mm and 12mm Sheet Size 2000 x 1000

Manufactured Sheet Size 4000 x 2000

Can be cut to

2000 x 2000 2000 x 1000

WEATHERABILITY BY SUNSHINE WEATHER METRE EXPOSURE

TIME OF EXPOSURE	Hard Coat	
	YELLOWING	ADHESION OUT OF 100
Original	-	100
1000 hours	0.5	100
2000 hours	2.0	100
3000 hours	3.0	100
4000 hours	5.5	100
5000 hours	6.0	100

Note

- Yellowing is measured as ΔYI (Yellowing Index).
- Adhesion means the resistance of coating against peeling from the base polycarbonate.
 Outline of test: Cross hatch test, by making cuts o Imm2 on I cm- area (total 100 squares) and cover it with adhesive tape & then peel off.

Evaluation of adhesion is done by counting non peeled

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Physical Properties	
Specific Gravity ASTM D 792	1.2
Tensile Strength ASTM D 638, Units Mpa	64
Elongation ASTM D638, Units%	80
Flexural Strength	93
Flexural Modulus ASTM D 790, Units Mpa	2350
Izod Impact Strength ASTM D 256, Units Phi (measured on 3mm thick sheet)	784
Heat Deflection ASTM D 649, UNTS°C	135
Temperature under load	-
Co-efficient of Linear Therma	l Expansion 7
Flammability ASTM D 635	Self Extinguishing
Light Transmittance	89
SURFACE HARDNESS PROPERTY	Hard Coat
Tabor Abrasion (CS-IOF wheel, 500g lo	ad)
(Increase Haze %)	5
Falling Sand (Carborundum #80)	
800g	3

- CNC
- Designing
- ConsultingEngineering
- 3D Printing
- 3D Scanning

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