



**KY Polycra**  
Polycarbonate Sheets

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**POLYHOSE KOHYEI INDIA PRIVATE LIMITED**  
A Japanese Joint Venture with Polyhose Group

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## About Polyhose Kohyei India Private Limited

Polyhose Kohyei India Private Limited, located in Chennai is a fast-growing company engaged in the sales and distribution of engineering plastics, Elastomers etc and channel partners for various global suppliers and serve hundreds of customers in India. It is a subsidiary of Kohyei Trading Co Ltd., Japan, an organization with more than 75 years of presence and a JV with Polyhouse group in Chennai, India, with technical knowhow from Japan, to manufacture High performance sheets made of polycarbonate, PMMA.PET G etc., engaging qualified and experienced professionals in the field.

We have installed capacity of 7500 MT per annum with complete clean room set up with advanced quality checks in the extruded sheets, to meet global quality standards

## KY Polyca Solid Plain Polycarbonate Sheets:

Plain solid sheets are produced with both side smooth surface in clear transparent, translucent and opaque colors. These sheets offer excellent impact strength, good clarity and very good light transmission rate.

## KY Polyca Solid Embossed Polycarbonate Sheets:

Embossed sheets are manufactured with one side embossing of texture pattern in clear transparent, translucent and opaque colors. The embossed sheets offer good light transmission, impact resistance with haze effect.

## KY Polyca Solid Diamond/Crystal Polycarbonate sheets:

Crystal/ Diamond embossed sheets are manufactured with one side embossing of diamond structure. The Diamond pattern is unique and specially made with enhanced top class design for maximum internal reflection.

## KY Solid Plain PET G Sheets:

Solid plain PETG is a clear or opal white copolyester PET sheet which can be thermoformed at relatively low temperatures. It can be formed into complex shapes which makes it ideal for use in sign, display and in-store fixtures, as well as illuminated advertising and Point of Sale.



## KY Polyca Solid Plain Polycarbonate Sheets

### KY Polyca Product Range

ITEM	VARIETY	THICKNESS	WIDTH	STANDARD LENGTH	COLORS
PLAIN	GP	1mm - 12mm	1220mm/2050 /2100mm	2440mm/3050mm /30500mm	Clear, White, Bronze, Blue, Green, Greenish Blue & Smoke Grey
	UV1	1mm -12mm	1220mm/2050 /2100mm	2440mm/3050mm /30500mm	Clear, White, Bronze, Blue, Green, Greenish Blue & Smoke Grey
	UV2	1mm -12mm	1220mm/2050mm /2100mm	2440mm/3050mm /30500mm	Clear, White, Bronze, Blue, Green, Greenish Blue & Smoke Grey
EMBOSSSED	UV1	1.25-12mm	1220mm/2100mm	2440mm/3050mm /30500mm	Clear, White, Bronze, Blue, Green, Greenish Blue & Smoke Grey
	UV2	1.25-12mm	1220mm/2100mm	2440mm/3050mm /30500mm	Clear, White, Bronze, Blue, Green, Greenish Blue & Smoke Grey
DIAMOND	UV1	1.7-12mm	1220mm/2100mm	2440mm/3050mm /30500mm	Clear, White, Bronze, Blue, Green, Greenish Blue & Smoke Grey
	UV2	1.7-12mm	1220mm/2100mm	2440mm/3050mm /30500mm	Clear, White, Bronze, Blue, Green, Greenish Blue & Smoke Grey
PET G	UV1	1.5mm – 12mm	1220mm/2050mm	2440mm/3050mm	Clear & Opal White

### Typical Physical Properties

PROPERTY	STANDARD	CONDITIONS	UNIT	VALUE
Density	ASTM D792		g/cm <sup>3</sup>	1.2
Heat Deflection Temperature	ASTM D648	1.82 MPa	°C	130
Service Temperature Range			°C	-40 to 120
Coefficient of Linear Thermal Expansion	ASTM D696		cm/cm °C	6.5 X 10 <sup>-5</sup>
Thermal Conductivity	ASTM C177		W/mK	0.21
Tensile Strength at Yield	ASTM D638	10 mm/min	MPa	65
Tensile Strength at Break	ASTM D638	10 mm/min	MPa	60
Elongation at Yield	ASTM D638	10 mm/min	%	6
Elongation at Break	ASTM D638	10 mm/min	%	>90
Tensile Modulus of Elasticity	ASTM D638	1 mm/min	MPa	2300
Flexural Strength	ASTM D790	1.3 mm/min	MPa	100
Flexural Modulus	ASTM D790	1.3 mm/min	MPa	2600
Impact Falling Weight (E-50)	ISO 6603/1	2mm sheet	J	88
Rockwell Hardness	ASTM D785		R Scale	125R
Light Transmission	ASTM D1003	2mm sheet	%	90 - 40
Haze	ASTM D1003	2mm sheet	%	<0.5
Yellowness Index	ASTM D1925	2mm sheet		<1

### Flammability

STANDARD	CLASSIFICATION
BS 476/7	Class 1Y
NSP 92501, 4	M1, M2
DIN 4102	B1, B2
CSE RF 2/75/A   CSE RF 3/77	Class 1
UL Classified	V2 (File e221255)
ASTM D635	CC1

\*All the above depends on thickness. For additional information please contact Polyhose Kohyei India

