



PET  
PETG  
POLYCARBONATE  
VISOR



**CHANGZHOU JINLIBAO PLASTIC CO., LTD**  
Clear and Color plastic sheet and products  
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# COMPANY INTRODUCTION



Changzhou Jinlibao Plastic Co., Ltd is professionally at producing **clear and color PET sheet, PETG sheets, Polycarbonate sheet, rolls and visors** since 2000, we could produce different thickness, surface, size, color and supply second cut, bending, fold and coating. They are widely used at thermoforming, printing, packaging, advertising, window, building partition, protection, displays, price tag holders, shelf partitions, direction signs, promotional symbols, food containers and trays, pharmaceutical applications, flat and formed machine coverings and roofing area. Our factory is located in Changzhou city of Jiangsu Province, covering a total area of 28,000 square meters, abut Shanghai port, have an easy access of transportation.

PLASTICOOP=PLASTIC+COOPERATION.

### Company Advantages:

- A)-Max 2100mm Wide, Length No Limited;  
Thickness: 0.15mm/0.006" to 20 mm/0.8"
- B)-Any Color Customized For You, like clear, white, opal, blue, green, red, orange, smoke color and more, Do Not Fade After Second Processing and Using;
- C)-Different Surface like Glossy, Matte, Embossed, anti- Reflective and Customized;
- D)-Different Treatment: UV Coated, Anti-Scratch, Anti-Static, Anti Reflections, Light Diffusing and Anti-Fog,
- E)-Second Processing Supply, For Example: Second Cut, Bending, Logo Marking, Printing, Thermoforming, Install And More. (Have printing and thermoforming partner))
- F)-Factory since 2000, More Experience to save your time and cost.



ISO 9001

ISO 140001

UL-FACTORY ERTIFICATED

FIRPROOF CERTIFICATION



ROHS-SGS



®



CERTIFICATE OF UTILITY MODEL PATENT



**PET Sheets, Rolls, Films and Products**

Standard Specification / size Customizable to save your material cost

Thickness-mm/inch	ROLL Max Wide-mm	Flat Sheet Size/mm X Mm/supply Second Cut	Color	Surface Optional
0.15 / .006	1100	A4,A3,500X500; 915x1830;1000X2000	Transparent;	Glossy; Anti-glare/ Anti-Refletion Frosted/ Matte; Embossed; Anti-scratch; Anti-uv; Anti-fog; Light Diffusing; Antistatic
0.20/.008	1250	A4,A3,500x500;915x1830; 1000x2000;1220x2440;1250x2050 Same As 4x8 Ft/48x96 Inch	Translucent	
0.25/.010	1300		Color: Opal,	
0.30/.012	1300		Blue, Green,	
0.35/.014	1300		Orange, Brown;	
0.40/.016	1300		Solid Color:	
0.50/.02	1300		White, Green,	
0.60/.024	1300		Yellow, Red,	
0.75/.03	1300		Pink And More	
0.80/.032	1300			
1.00/.04	2050		A4,A3,500X500;915x1830; 1000X2000;1220X2440;1250X2050;2050X3050 TO FT: 4X8 ft/48X96 INCH/60X72 INCH Cut able	
2.00/.08	2100			
3.00/.12	2100			
4.00/.16	2100			
5.00/.20	2100			
6.00/.24	2100			

**Different color and Transmittance Customizable:**



**Special Features:**

- Recyclable, Environmentally protection: no harmful substances.
- Good chemical resistance: Acid, alkali, and alcohol resistance
- Conforms to regulations of Food, such as FDA, BGA, so food and pharmaceutical contactable
- High gloss, high transparency
- Economy: Good toughness, Reduce extra damage cost



**Different Surface Customizable**



ANTI-GLARE/ANTI-REFLATION surface ← | → Glossy surface



Frosted/ MATTE ← | → ANTI-GLARE/ANTI-REFLATION

EMBOSSSED

**USE:**

Widely used in thermoforming, silk screen printing, advertising box, light box, advertising protection, different window, color Spectacle lenses, Sketchpad, ruler, book cover, frame protector, clothes sewing mold, building partition, displays, price tag holders, market shelf partitions, display shelf, direction signs, promotional symbols, food containers and trays packaging, pharmaceutical applications, flat and formed machine coverings, skylight and fold wave roofing and many other fields.



## Basic Properties of PET:

Physical	Test Method	Units	Jinlibao PET sheet
Specific	ASTM D1505	---	1.33
Shrinkage	ASTM D955	%	0.3-0.7
Rockwell Hardness	ASTM D785	R-cale	118
Water Absorption	ASTM D570	%	0.2
<b>Mechanical</b>			
Tensile Strength	ASTM D638	Mpa(kgf/cm2)	57(600)
Tensile Modulus	ASTM D638	%	120
Flexural Strength	ASTM D790	Mpa(kgf/cm2)	83(840)
Flexural Modulus	ASTM D790	Mpa(kgf/cm2)	2450(25000)
Izod Impact Notched	ASTM D256	J/M(kgf-cm/cm)	39(4.0)
<b>Thermal</b>			
Deflection Temperature	ASTM D648(@0.46Mpa)	°C	68
Softening Temperature	ASTM D1525(@1kg load)	°C	80
Glass Transition Temp.	DSC Method	°C	78
<b>Optical</b>			
Haze	ASTM D1003	%	<1
Light Transmission	ASTM D1003	%	90
<b>Electrical</b>			
Dielectric Strength	ASTM D149	Kv/mm	23
Resistance force	ASTM D257	Ω.cm	10 <sup>16</sup>
Dielectric Constant @ 1MHz	ASTM D150	---	2.9
Dielectric Constant @ 1KHz	ASTM D150	---	0.025



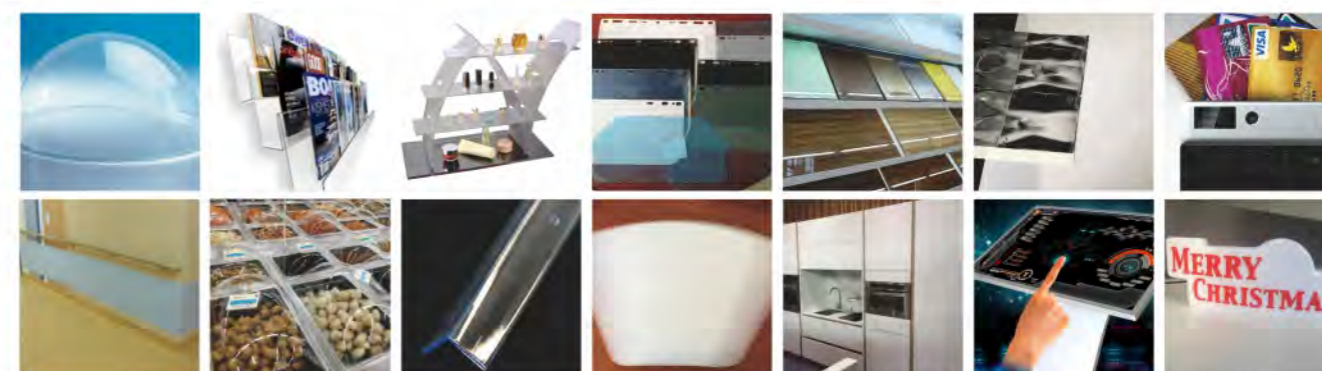
## PETG rolls, sheets and products COPOLYESTER

### Specification

Standard Specification / size Customizable to save your material cost				
Thickness mm and inch	ROLL Max Wide-mm	Flat sheet size/mm X mm/ supply second cut	Color	Surface Optional
0.15mm/.006"	1100	A4,A3,500X500; 915x1830;1000X2000	Transparent;	Glossy; Anti-glare/ Anti-reflation; Frosted/ Matte; Embossed; Anti-scratch;
0.2mm/.008"	1250	A4,A3,500X500;915x1830;		
0.25mm/.01" to 0.8mm/.032"	1300	1000X2000;1220X2440; 1250X2050; TO FT: 4X8 ft	Translucent Color: Opal, Blue, Green, Orange, Brown;	Anti-uv; Anti-fog; Light Diffusing; Antistatic
1mm/.04"	2050	1000X2000;1220X2440; 1250X2050;2050X3050 TO FT: 4X8 ft/48X96 INCH 60X72 INCH/Cut able		
2mm/.08" to 15.24mm/0.6"	2100		Solid Color: White, Green, Yellow, Red, Pink And More	

### Special features

- Excellent impact strength and toughness
- Easy to print, have excellent chemical resistance
- High gloss, high transparency
- Environmental protection: no harmful substances
- Economy: to shorten the processing time (excellent thermal forming performance)



### USE

Typical applications include P.O.S (displays, price tag holders and shelf partitions), direction signs, promotional symbols, food containers and trays, pharmaceutical applications, flat and formed machine coverings, partitions, face visors, mirrors. Owing to their excellent flow and mold surface reproduction, Plasticoop petg sheets can be rapidly thermoformed at low temperatures without predrying. Because of its low specific heat capacity, Plasticoop petg sheets requires little energy for thermoforming; allowing rapid thermoforming at low energy consumption, short production cycles, extreme degrees of stretching and accurate mold surface reproduction. The sheets are easy to screen print, 3D-print machine and many other fields.

**Typical Properties**

Properties	ITEM FOR TEST	TEST METHOD	UNIT	VALUE
PHYSICAL PROPERTIES	SPECIFIC GRAVITY	ASTM D792		1.27
	WATER ABSORPTION [24HOURS]	ASTM D570	%	0.2
	REFRACTIVE INDEX	ASTN D542A	-	1.57
	LIGHT TRANSMITTANCE 0.125"(3.2MM) THICKNESS, CLEAR	ASTM D1003	%	90
	HAZE 0.125"(3.2MM) THICKNESS, CLEAR	ASTM D1003	%	1
	ROCKWELL HARDNESS	ASTN D785	R SCALE	115
MECHANICAL PROPERTIES	TENSILE STRENGTH, ULTIMATE	ASTM D638		7,700
	TENSILE MODULUS	ASTM D638	PSI	320,300
	FLEXURAL STRENGTH	ASTM D 790	PSI	11,200
	FLEXURAL MODULUS	ASTM D790	PSI	310,000
	SHEAR STRENGTH	ASTM D732	PSI	9,000
	COMPRESSIVE STRENGTH	ASTM D895	PSI	8,000
	IZOD IMPACT STRENGTH [0.125"(3.2MM) THICKNESS, @73°F]	ASTN D256	FT-IBS/IN	1.7
	IZOD IMPACT STRENGTH [0.125"(3.2MM) THICKNESS, @32°F]	ASTN D256	FT-IBS/IN	1.2
THERMAL FEATURE	DROP DART IMPACT 0.250"	ASTM D3763	FT-IBS/IN	22
	HEAT DEFLECTION - 264 PSI	ASTM D648	°F	157
	TEMPERATURE - 66 PSI			
	COEFFICIENT OF THERMAL EXPANSION	ASTM D696	IN/IN/°F	3.8x10 <sup>-5</sup>
GLASS TRANSITION TEMPERATURE	ASTM D3418	°F	178	
ELECTRICAL	DIELECTRIC CONSTANT @1KHZ	ASTM D150	-	2.6
	DIELECTRIC CONSTANT @1mKHZ	ASTM D150	-	2.4
	DIELECTRIC STRENGTH	ASTM D149	V/MIL	410

**FIRE RATING: OXYGEN INDEX (LOI)% ISO4589**

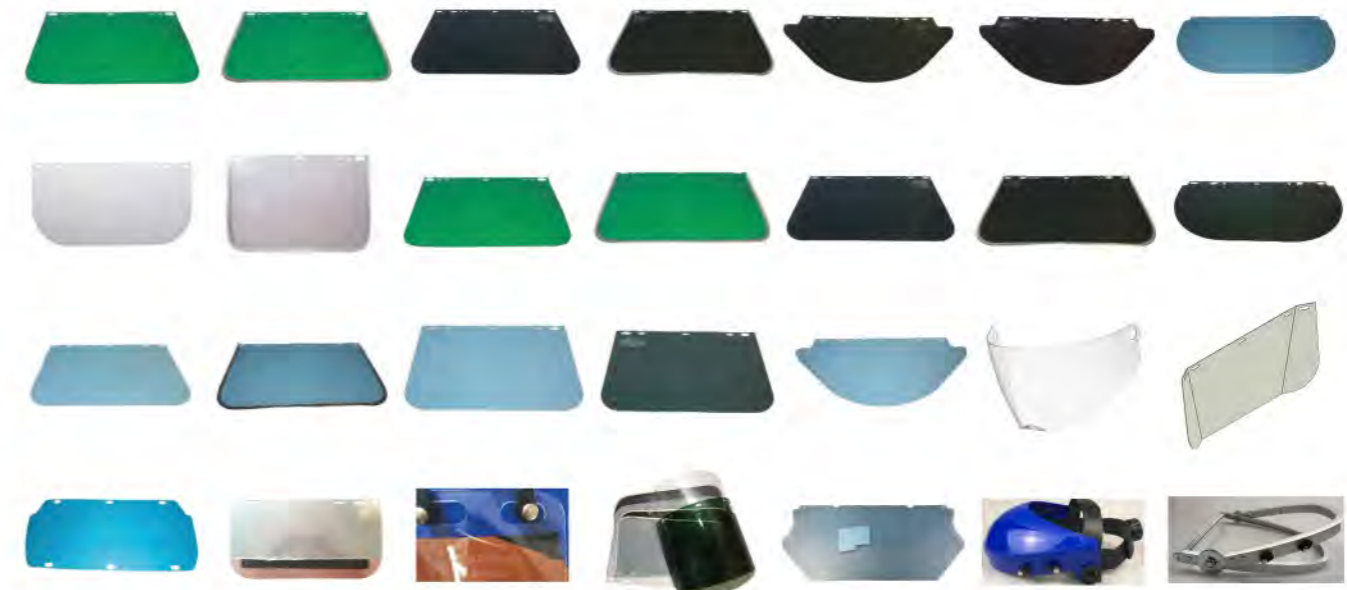
COUNTRY	STANDARD	RATING	THICKNESS
EUROPE	EN13501-1	B-S1, D0	2-8mm
		B-S2, D0	2-6mm
UK	BS 476 PART 7	CLASS 1Y	2&15mm
GERMANY	DIN 4102	B1 (INDOORS)	0.5-12mm
	DIN 54837/5510-2	S4/SR2/ST2	mm
ITALY	CSE RF2/75/A	CLASSE 1	2-8mm
	CSE RF3/77	(WALL)	
FRANCE	NFP 920501 & 505	M2	2-5mm
	NFP 16-101 & 102	F1	0.5-15mm
UNITED STATES	UI94	HB	0.25-2.5mm
		V-2	3.0mm

**VISORS**

Face shield	PETG VISORS AND POLYCARBONATE VISORS
Thickness	0.04"/0.06", 0.02" and more
Size	8"X12", 8"X15", 8"x15.5", 8"x16", 8"X16.5", 9-3/4"X19", 9"X15.5", 9"X18", 9"X19", 10"X15", 10"X20",
Color	clear/ transparent, light green, dark green, orange, yellow, red and brown
Holes	0, 2, 3, 5, 7, 9, 11 and more
Second service	Logo stamp, label stick, anti-fog coated, adhesive velcro tape/hook and loop, with aluminum bound, bending shape
Certification	ANSI Z87.1, Z87+, NFPA 70E-2015 and CE:EN166
Packing	two side protect films, (films have clear, white, green, blue color) 100 piece per carton box, 50 piece per carton box, 105 carton boxes per pallet, 16 pallets per 20ft container
Fittings	Ratchet, Headgear
Advantage	Replacement, Dielectric Protection, Chemical Resistant

**Changzhou Jinlibao Plastic Co., Ltd**  
**CJP040317-01**

Project ID	Test/Models(s)	Results Pass / Fail	Reason	Page
Z-CJP040317-01-01	ANSI Z87.1-2015 High Impact Faceshields - Base Model PETG / Polycarbonate Visor PLASTICOOP CV2000 Clear 0.40" Polycarbonate Faceshield, Blue Crown with Black Plastic Headgear	Pass		1
Z-CJP040317-01-02	ANSI Z87.1-2015 Faceshields - General Requirements PETG / Polycarbonate Visor PLASTICOOP GV2000 8" x 16" .040 Clear PETG Faceshield tested with Blue Crown with Black Plastic Headgear	Pass		7



### Polycarbonate rolls, boards and Second processing products

STANDARD FLAT SIZE: 48"X96", 4ftX8ft, 3ftX6ft,

ROLLS WIDTH: 4ft, 5ft, 6ft, 7ft.

THICKNESS: .02", .03", .04", .05", .06", .07", .08", .09", .10", .18", .20", .30", .40", .50" TO .8"

WIDTH: 48", 60", 84"

LENGTH: 96"

COLOR: clear, white, opal, blue, green, white, brown, yellow and more.

SECOND PROCESSING SUPPLY: cutting, bending, folding, logo marking, thermoforming,

#### SPECIAL COATING

Kind	Effectiveness	Application	Remark
Hard Coating	Surface hardness up	Sound-proofing wall, computer protective glass	Pencil hardness 6H
Antistatic Coating	Surface antistatic	Semiconductor clean room	Surface resistance value 10 <sup>6</sup> to 10 <sup>8</sup> Ω.cm
Anti-fog Coating	Surface anti fog	Helmet protective glass	

Features and Benefits	Typical Uses
<ul style="list-style-type: none"> <li>● Food compatible</li> <li>● High clarity</li> <li>● Good impact resistance</li> <li>● Excellent thermoformability</li> <li>● High impact resistance</li> <li>● High clarity and light transmission</li> <li>● Weather and UV resistant (UV Version)</li> <li>● Good acoustical insulation</li> <li>● Good electrical insulation</li> <li>● Lightweight</li> <li>● Easy to handle and install</li> <li>● Recyclable</li> <li>● SELF-EXTINGUISHING PERFORMANCE (UL 94 V-0, V-2 CERTIFICATION ACQUISITION)</li> </ul>	<ul style="list-style-type: none"> <li>● Bus shelters</li> <li>● Poster protection</li> <li>● Displays</li> <li>● Bus Shelters (UV Version)</li> <li>● Machine Guards</li> <li>● Price tag holders</li> <li>● Dispensers</li> <li>● Shelf Dividers</li> <li>● Poster Protections</li> <li>● Flat or thermoformed machine guards</li> <li>● Transparent Covers</li> <li>● Lids &amp; trays</li> <li>● Containers for food contact &amp; pharmaceutical applications</li> <li>● Components for toys &amp; games</li> <li>● Cycle helmets</li> <li>● Greenhouse glazing</li> <li>● Alternative to glass</li> </ul>



CLASSIFICATION	ITEM FOR TEST	TEST METHOD	UNIT	PROPERTY VALUE
PHYSICAL PROPERTIES	SPECIFIC GRAVITY	ASTM D792		1.2
	"WATER ABSORPTION [24HOURS 73F(23°C)]"	ASTM D570	%	0.15
	REFRACTIVE INDEX	ASTN D542A	-	1.59
	"LIGHT TRANSMITTANCE 0.125"(3.2MM) THICKNESS,CLEAR"	ASTM D1003	%	86
	HAZE 0.125"(3.2MM) THICKNESS,CLEAR	ASTM D1003	%	1
	YELLOWNESS INDEX 3YEARS(UV COATED SHEET)	ASTM D1925	Y1	Less than 2.0
MECHANICAL PROPERTIES	ROCKWELL HARDNESS	ASTN D785	R SCALE	115
	TENSILESTRENGTH[ULTIMATE]	ASTM D638	PSI(KGF/CM <sup>2</sup> )	9,500(670)
	ELONGATION[ULTIMATE]	ASTM D638	%	100
	FLEXURAL STRENGTH	ASTM D 790	PSI(KGF/CM <sup>2</sup> )	14,000(985)
	FLEXURAL MODULUS	ASTM D790	PSI(KGF/CM <sup>2</sup> )	332,000(23,350)
THERMAL FEATURE	IZOD IMPACT STRENGTH[0.125"(3.2MM)THICKNESS,NOTCHED]	ASTN D256A	FT-IBS/IN (KGFCM/CM)	16(90)
	COEFFICENCE OF THERMAL EXPANSION		"F (°C)	270(132) 280(138)
	HEAT DEFLECTION TEMPERATURE	ASTM D696	IN/IN/°F (CM/CM/°C)	3.75X10 <sup>-5</sup> (6X10 <sup>-5</sup> )
	BRITTLE TEMPERATURE (CAN BE SPECIFIED)	UL94	-	V0,V2
IGNITION TEMPERATURE	-FLASH		"F (°C)	873(467)
	-SELF	ASTM D1925		1,076(580)

※ THE ABOVE INFORMATION IS TYPICAL VALUES ONLY NOT FOR WARRANTY PIROPOSE