TYPICAL PROPERTIES OF HARDENED POLYCARBONATE SHEET

Classification

- Single-sided hardening series
- Duoble-sided hardening series

Features

- High hardness, HB or above
- Good friction resistance
- Scratch resistance
- Anti-fog, anti-ultraviolet, anti-rain
- Good impact resistance

Application

It can be widely used in electronic products, such as windows, panels, covers, anti-fog masks, anti-fog eye mask lenses, LCD displays, etc.

Type	Color	Texure	Thickness(mm)	Width(mm)
Specification				
Sheet	Natural, Dark Brown	Polished/Polished Frosted/Polished	0.375 - 2.0	915, 1000
Tolerances	T±6%			

Properties	Value	UNITS	Method
Specific Gravity	≥1.2	G/cm³	ISO 1183
Haze	Transparent: <0.5	%	ASTM D1003
	Frosted: >60		
Light Transmission	T≤1.0mm, Transparent: >85	%	ASTM D1003
	T>1.0mm,Transparent: >80		
	Frosted: >60		
Water Absorption Equilibrium	≤0.35	%	ASTM D570
Pencil Hardness	≥HB	-	500G weight, Mitsubishi pencil scratch

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Tensile Strength	≥55	MPa	ISO527
Tensile Modulus	≥1800	MPa	ISO527
Elongation-at-break	≥80	%	ASTM D882
Wearability	No wear	-	200g/cm^2 pressure, 5cm stroke 10 times (SW0000 steel wire)
Chemical Resistance	No loss	-	Methanol, acetone, coating after drying with eraser
Saline Tolerance	Nothing out of the ordinary	-	Place it in a 5% NaCl solution at 35°C for 72 hours, then wash it and place it at room temperature for 4 hours before observing it.
Deformability	≤3mm	-	400x550 standard sheet on the glass plate, The maximum measurement scale of the height ruler does not exceed 3mm.
Electroplating performance	Plating yield≥90%	-	Visual Inspection
Heat Resistance	No Change	-	80°C/40min

Note: The above data are typical values obtained under standard methods and should not be interpreted as unstable application conditions.