

Kaixin PC/PMMA double layer three layer composite sheet

Product property sheet

describe

Kaixin PC/PMMA composite sheet is an optical grade sheet with a transparent imitation glass effect. It is made by co-extrusion of PMMA and PC (different from plastic alloys), including PMMA layer and PC layer. Its surface hardness can reach that of hardened acrylic, but it also has the toughness of PC sheets and can withstand greater impact.

Typical physical properties

Performance	Value	Unit	Standard test
Double layer composite sheet			
Physical properties			
Water absorption	0.2	%	ASTM D570
Proportion	1.2	g/cm ³	ASTM D792
Pencil hardness	HB	500g weight	Mitsubishi Pencil ASTM
Optical properties			
Transmittance	>90	%	ASTM D1003
Haze	<1	%	ASTM D1003
Mechanical behavior			
Tensile Strength	50	MPa	ISO 527-1
Elongation at break	15	%	ASTM D638
Resistant to bending	150	°	ASTM D790
Electrical properties			
Arc resistance	/	/	JISK-6911
Thermal properties			
Molding shrinkage	0.2~0.6	%	ASTM D955
Vicat softening point	96	°C	ASTM D-1525
Three-layer composite sheet			
Physical properties			
Water absorption	0.2	%	ASTM D570
Proportion	1.2	g/cm ³	ASTM D792
Pencil hardness	HB	500g weight	Mitsubishi Pencil ASTM D3363
Optical properties			
Transmittance	>90	%	ASTM D1003
Haze	<1	%	ASTM D1003
Mechanical behavior			
Tensile Strength	61	MPa	ISO 527-1
Elongation at break			
Resistant to bending	>150	°	ASTM D790
Electrical properties			
Arc resistance	NO Trace	/	JISK-6911
Thermal properties			
Molding shrinkage	0.2~0.6	%	ASTM D955
Vicat softening point	96	°C	ASTM D-1525

Note: This test is for reference only and is not an absolute application indicator.

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