

Kaixin diffusion film

Product property sheet

Describe

Kaixin diffusion film is mainly composed of a three-layer structure, including the bottom anti-scratch layer, the middle transparent PET substrate layer and the top diffusion layer. The working principle of the diffusion film is that light is incident from the bottom anti-scratch layer, then penetrates the highly transparent PET substrate, and is then scattered by the diffusion particles dispersed in the diffusion coating to form a uniform surface light source.

Typical physical properties

Performance	Value	Unit	Standard test
Physical properties			
Proportion	1.4	g/cm ³	ASTM D792
Optical properties			
Transmittance	73	%	JIS K 7136
Haze	95	%	
Mechanical behavior			
Tensile strength (TD)	180	MPa	ASTM D882
(MD)	170	MPa	ASTM D882
Elongation at break (TD)	125	%	ASTM D882
(MD)	120	%	ASTM D882
Thermal properties			
Molding shrinkage TD)	-0.56	%	ASTM D1204
(MD)	-0.85	%	ASTM D1204
Environmental testing			
High temperature/high humidity 250 hours	85°C/85%RH	<0.1	Brightness attenuation (%) <1
High temperature 250 hours	85°C	<0.1	<1
Low temperature 250 hours	-25°C	<0.1	<1
Thermal shock	(-25°C×1Hr - 65°C×1Hr) ×100cycles	<0.1	<1

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

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