

Brightness Enhancement Film

Product property sheet

Describe

Kaixin Brightness Enhancement Film (BEF) is a brightness enhancement film that uses acrylic resin to precisely form a regularly dispersed prism structure on the surface of very transparent PET. It is used as a brightness enhancement film for liquid crystal displays to allow light to pass through the brightening microstructure. Recycle and focus light to produce a brightening effect.

Typical physical properties

Performance	Value	Unit	Standard test
Physical properties			
Proportion	1.4	g/cm ³	ASTM D792
Optical properties			
Transmittance	7	%	
Haze	91	%	ASTM D1003
Mechanical behavior			
Tensile strength (TD)	210	MPa	ASTM D882
(MD)	140	MPa	ASTM D882
Elongation at break (TD)	105	%	ASTM D882
(MD)	180	%	ASTM D882
Thermal properties			
Molding shrinkage (TD)	-0.56	%	ASTM D1204
(MD)	-0.85	%	ASTM D1204
Environmental testing	unit	Aging degree (Δ YI)	Brightness attenuation (%)
High temperature/high humidity 500 hours	65°C/95%RH	<0.1	4.0~5.0
High temperature 500 hours	85°C	<0.1	4.0~5.0
Low temperature 500 hours	-30°C	<0.1	4.0~5.0
Thermal shock	(-30°C×1Hr - 65°C×1Hr) ×250cycles	<0.1	4.0~5.0

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

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