

Polyopt® LM11

PMMA Film

Suzhou OMAY Optical Materials Co., Ltd

Message:

Polished/Polished, high transparency
Polymethyl methacrylate (PMMA, Acrylic) light guide plate (LGP)
Protective film covered on one side

General Information			
Features	High Clarity		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Molding Shrinkage	0.20 to 0.60	%	Internal Method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	101		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	66.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	107	°C	ISO 306
CLTE - Flow	6.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.20	W/m/K	ASTM D5470
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant	3.70		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	93.0	%	ASTM D1003
Haze	0.30	%	ASTM D1003

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