



Material Data Sheet

PC Film/Sheet Products

产品描述 Description:

GG-Optical: Gloss/Gloss Optical Clear PC

GG-Optical, is our highest grade among our product group in terms of optical clarity and superior printability. With the use of the world brand Optical Clear PC resin, it is widely used for high grade printing, hard-coating for the display panel, touch screen, membrane overlays, automotive dials, goggles & face-shield.

物性表 Typical Property Table

特性 Property	测试方法 Test Method	单位 Units	测试值 Test value
物理性 PHYSICAL			
比重 Specific Gravity	ASTM D792	g/cm ³	1.2
透光率 Light Transmissivity	ASTM D1003	%	89 ~ 92
雾度 Haze	ASTM D1003	%	< 1
平均吸水率 Water Absorption Equilibrium, 24 hrs	ASTM D570	%	0.35
机械性 MECHANICAL			
拉伸强度 Tensile Strength	ASTM D882	psi	8,800
	ISOR1184-1987	MPa	60
极限延伸率 Elongation at break	ASTM D882	%	>90
冲击强度 Impact Strength @ 10mils	JIS-K6745	In-lbs	120
耐温性 THERMAL			
维卡软化点 Vicat Softening Point 120 °C/hr, 10N load	ISO 306	°C	151
电气性 ELECTRICAL			
介电强度 Dielectric Strength (@ 10mils)	ASTM D149	V/mil	1,700
体积绝缘 Volume Resistivity@25°C,50%RH	ASTM D257	Ω.cm	10 ¹⁶
表面绝缘 Surface Resistivity@25°C,50%RH	ASTM D257	Ω	10 ¹⁵
阻燃性 FLAMMABILITY			
UL 防火等级 UL Flammability @ ≥10 mils	UL card E514283	UL94	V-2
@ <10 mils	UL card E514283	UL94	VTM-2
厚度公差 Thickness tolerance <0.250mm(0.010") ≥0.250mm(0.010")		%	±10% ±5%
光學性能 OPTICAL PROPERTY	Spot diameter		Area measured
Pinhole/ Black dot/ Particles, etc.	0.5mm ≤ Φ ≤ 2.0mm	0	930 x 1830mm/sheet
	0.2mm ≤ Φ ≤ 0.5mm	1	450 x 500mm/sheet
	0.1mm ≤ Φ ≤ 0.2mm	8	450 x 500mm/sheet

Note: The values in the typical property table are for reference only. For further requirements, please contact us.