



Material Data Sheet

PC Film/Sheet Products

产品描述 Description:

FVM-UCO-NL: Fine Velvet/Matte Uncoated PC Overlay (Non laser printable)

FVM-UCO-L: Fine Velvet/Matte Uncoated PC Overlay (Laser printable)

FVM-CO-NL: Fine Velvet/Matte Coated Overlay (Non laser printable)

FVM-CO-L: Fine Velvet/Matte Coated Overlay (Laser printable)

FVM-O is a normal textured polycarbonate overlay (Velvet/ Matte) which is tailored for hot or lamination used for card application. Its surface scratches resistance on the velvet surface as well as printability at the matte surface creates an excellent protection for the daily uses of card application, e.g. credit card, bank card, membership card, RFID card, government ID card, passport page, etc. Option for Laser-printable or/and with coated adhesive for choice.

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	1.1-1.15
透光率 Light Transmissivity	ASTM D1003	%	84 ~ 85
颜色 Color: b* (D65/10°)	ISO 5631-2		Normal type: 1.75 Laser type: 2.45
平均吸水率 Water Absorption Equilibrium, 24 hrs	ASTM D570	%	0.1~0.2
机械性 MECHANICAL			
拉伸强度 Tensile Strength	ASTM D882	psi	8,800
	ISOR1184-1987	MPa	56~59
极限延伸率 Elongation at break	ASTM D882	%	~ 84
冲击强度 Impact Strength @ 5mils	JIS-K6745	In-lbs	100
耐温性 THERMAL			
维卡软化点 Vicat Softening Point 120 °C/hr, 10N load	ISO 306	°C	145~151
电气性 ELECTRICAL			
介电强度 Dielectric Strength (@ 5mils)	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 SURFACE ROUGHNESS			
Surface Roughness (Velvet Ra/ R3z)	ISO 4288	um	Normal type: 2.4/12.2 Laser type: 2.5/14.0
Surface Roughness (Matte Ra/ R3z)	ISO 4288	um	Normal type: 1.0/4.3 Laser type: 0.8/4.0
Surface Tension (Velvet)	In house Dyne Test	Dyne	37~38
Surface Tension (Matte)	In house Dyne Test	Dyne	42~44
厚度公差 Thickness tolerance <0.250mm(0.010") ≥0.250mm(0.010")		%	±10%
			±5%

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