

TECHNICAL DATA SHEET

Velvet/Matte Polycarbonate Film

Product Name & No: **VX41**



Product Description

VX21 is a one side matte, one side polished transparent polycarbonate film. It offers high temperature resistance, excellent dimensional stability, as well as good printability without pretreatment making it very suitable for multi-layer printing for applications such as overlays, floor graphics, high-performance labels and in-mould decoration. It can be screen printed using traditional solvent based or water based inks, as well as UV or infrared drying inks and offers ease of processing for thermoforming, embossing, die-cutting, hydro-forming and bending. The matte texture offers mar resistance, and can be used over light-emitting devices (LEDs). It's low gloss level reduces glare in automobile interiors and office environments. Recent technology improvements now in effect reduce texture variation by 50% and allow improved gauge control.

Product Datasheet

Item	Property	Value	Unit	Test Method
Physical	Density	1.2	g/cm ³	ISO 1183
	Haze	>90	%	ASTM D1003
	Light Transmission	>88	%	ASTM D1003
Mechanical	Tensile Strength	60	MPa	ISO 527
	Elongation	>100	%	ISO 527
	Bend Strength	91	MPa	ISO 178
	Tensile Modulus	2400	MPa	ISO 178
	Surface Tension	≥34	dyn/cm	Test Fluid
Electrical	Dielectric Constant	3	-	IEC60250
	Resistant Puncture Voltage	30	MV/mm	IEC60243
	Surface Resistivity	1.00E+16	Ω/square	IEC60093
	Volume Resistivity	1.00E+17	Ω-cm	IEC60093
Thermal	Coefficient of Thermal Expansion	5.8	x10 ⁻⁵ /°C	ISO 11359
	Thermal Conductivity Rate	0.2	W/(m*K)	ASTM D5470
	Thermal Shrinkage	0.5-0.7	%	ASTM D1204
	Tg	152	°C	ISO306
Flammability	Grade of Resistant Flame	V-2/VTM-2		UL 94

Tip: This test data is for reference only, not as an absolute application index.