

Kamicard Datasheet



Material Composition

Components	Cellulose: 97.5%, Talc: 2%, Zinc Chloride 0.35%, Sodium Chloride 0.001%
Hazardous Materials	None. RoHS compliant

Physical Characteristics

Dimensions	Long side 85.47 ~ 85.72mm Short side 53.92 ~ 54.03mm
Thickness	0.68 ~ 0.84mm
Weight	4.5kg per 1000 cards
Density	1.10 ~ 1.40 g/cm ³
Surface Tension	> 73 N/m ²
Tensile Yield strength	> 85 Mpa
Self-extinguishing	UL94HB (Equal to a PET-G card)

Operating / Storage conditions

	Storage (Unopened shrink packaged product)	Operating
Temperature	+10 ~ +50 °C	+18 ~ +25 °C
Humidity	40 - 60% RH	40 - 60% RH

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Performance

TEST ITEM	STANDARD	RESULT
Bending Stiffness	ISO 7810 (2003) 4.2.10	With loading: 8.57mm * : Measured Value After loading: 1.08mm * : Measured Value
Dynamic Bending	ISO 7810 (2003)	Warps when bent but is manually reformable
Dynamic Torsion	ISO 7810 (2003)	Warps when bent but is manually reformable
Delamination	ISO 7810 (2003)	This is a single core substrate, therefore it does not delaminate.
Card warpage	ISO 7810 (2003)	Note: Kamicard is susceptible to humidity and must be handled under the conditions specified in "Kamicard Product Specification".
Temperature resistance	VICAT B 50	Does not soften, even at high temperatures
Elasticity	Young's Modulus	Longitudinal axis: 2.1×10^6 * (Measured Value)

Environmental Credentials:

Biodegradability	Biodegrades within 45 days (compliant to EN13432 for biodegradability)
Recyclability	Can be recycled into refused paper & plastic fuel (RPF)
CO ₂ emissions	Carbon neutral

Compatible Personalisation:

- CO₂ laser ablation (eg. Keyence)
- UV Ink jet printing (eg. Atlantic Zeiser Cardline Versa)

Available in any combination of the following options, although printed cards are recommended to avoid warpage issues:

- Unprinted
- Printed (CMYK)
- Milled
- Plug-in punched (depending on plug-in shape used)

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