

Technical Datasheet (PVCORB799)

APPLICATION:	This PVC TRANSPARENT OVERLAY has been specifically designed to be used for manufacturing EMV Bank Cards and in general all cards that need to be personalized in embossing. The specific resing used for this PVC Film provide an excellent finishing appearance, extra clear and smooth.		
APPEARANCE:	TRANSPARENT, BOTH SIDES MATT.		
THICKNESS (μm)	40 - 250 μm		
THICKNESS TOLERANCE ON 100% OF READINGS	Between 40 - 80 μm	± 10 %	
	Between 90- 150 μm	± 7 %	
	Between 160- 250 μm	± 4 %	
PROPERTIES	TEST METHOD	RESPONSE VALUE	
VICAT SOFTENING POINT (5Kg Load in oil as stacked samples)	UNI EN ISO 306 VSTB50	72 ± 2 °C	
DENSITY	ISO 1183-1	1.36 ± 0.04 g/cm ³	
SURFACE TENSION	ISO 8296	Best Printing side ≥ 40 mN/m	
		Reverse side ≥ 37 mN/m	
SURFACE ROUGHNESS	ASIA Tech Internal Test	Ra (μm)	Between 0.7~1.8μm
		Rz (μm)	Between 4~12μm
GLOSSINESS DEGREE in %	ASIA Tech Internal Test	Thickness ≤ 300μm	≤ 45 %
		Thickness ≥ 310μm	≤ 50 %
TENSILE STRENGTH	UNI EN ISO 527-3/2/50	CD MPa ≥	40 N/mm ²
		MD Mpa ≥	42 N/mm ²
HEAT SHRINKAGE in % (140±2 °C for 10 Minutes)	ASIA Tech Internal Test	Thickness 40-80μm	MD≥ -25 CD≤ +13%
	ASIA Tech Internal Test	Thickness 90-150μm	MD≥ -20 CD≤ +10%
	ASIA Tech Internal Test	Thickness 160-250μm	MD≥ -6 CD≤ +3 %
TENSILE IMPACT STRENGTH	ISO 8256	≥ 500 HJ/m ²	

* **Shelf Life:** 2 years in the original packaging

** **Recommended Storage Conditions:** Between 15~30 °C and humidity between 40~60%.

NO Direct sunlight exposure.