

Technical Datasheet (PVCWA791)

APPLICATION:	This PVC WHITE CORE has been specifically designed to be used for manufacturing IC Contact Cards. The specific formula ensure the minimization of powder and dusts during the milling stage. It also guarantee an extra resistance of the card body to low and high temperature. It is specifically recommended for the production of IC Smart Cards.		
APPEARANCE:	WHITE, BOTH SIDES MATT.		
THICKNESS (μm)	250 - 850 μm		
THICKNESS TOLERANCE ON 100% OF READINGS	Between 250 - 350 μm	$\pm 5 \%$	
	Between 360- 500 μm	$\pm 4 \%$	
	Between 510- 850 μm	$\pm 2.5 \%$	
PROPERTIES	TEST METHOD	RESPONSE VALUE	
VICAT SOFTENING POINT (5Kg Load in oil as stacked samples)	UNI EN ISO 306 VSTB50	$78 \pm 2 \text{ }^\circ\text{C}$	
DENSITY	ISO 1183-1	$1.38 \pm 0.04 \text{ g/cm}^3$	
SURFACE TENSION	ISO 8296	Best Printing side $\geq 42 \text{ mN/m}$	
		Reverse side $\geq 38 \text{ mN/m}$	
SURFACE ROUGHNESS	ASIA Tech Internal Test	Ra (μm)	Between 0.7~1.8 μm
		Rz (μm)	Between 4~12 μm
GLOSSINESS DEGREE in %	ASIA Tech Internal Test	Thickness $\leq 300\mu\text{m}$	$\leq 16 \%$
		Thickness $\geq 310\mu\text{m}$	$\leq 16 \%$
TENSILE STRENGTH	UNI EN ISO 527-3/2/50	CD MPa \geq	46 N/mm^2
		MD Mpa \geq	44 N/mm^2
HEAT SHRINKAGE in % (140\pm2 $^\circ\text{C}$ for 10 Minutes)	ASIA Tech Internal Test	Thickness 250-350 μm	MD \geq -10 CD \leq +4 %
	ASIA Tech Internal Test	Thickness 360-500 μm	MD \geq -7 CD \leq +3 %
	ASIA Tech Internal Test	Thickness 510-850 μm	MD \geq -5 CD \leq +2 %
TENSILE IMPACT STRENGTH	ISO 8256	$> 500 \text{ HJ/m}^2$	

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

** **Recommended Storage Conditions:** Between 15~30 $^\circ\text{C}$ and humidity between 40~60%.

NO Direct sunlight exposure.