

Technical Datasheet (ABSW806)

APPLICATION:	This ABS WHITE CORE is suitable for the production of SIM / USIM Card and in general all kind of cards that need to be extra resistant to heat and flame. Specifically designed to reach a very plain and smooth surface for a better printing result.		
APPEARANCE:	WHITE, BOTH SIDES MATT.		
THICKNESS (μm)	250 - 850 μm		
THICKNESS TOLERANCE ON 100% OF READINGS	Between 100 - 250 μm	$\pm 8 \%$	
	Between 260- 500 μm	$\pm 4 \%$	
	Between 510- 850 μm	$\pm 3 \%$	
PROPERTIES	TEST METHOD	RESPONSE VALUE	
VICAT SOFTENING POINT (5Kg Load in oil as stacked samples)	UNI EN ISO 306 VSTB50	$90 \pm 2 \text{ }^\circ\text{C}$	
DENSITY	ISO 1183-1	$1.29 \pm 0.05 \text{ g/cm}^3$	
SURFACE TENSION	ISO 8296	Best Printing side $\geq 36 \text{ mN/m}$	
		Reverse side $\geq 34 \text{ mN/m}$	
SURFACE ROUGHNESS	ASIA Tech Internal Test	Ra (μm)	Between 0.7~1.5 μm
		Rz (μm)	Between 5~10 μm
GLOSSINESS DEGREE in %	ASIA Tech Internal Test	Thickness $\leq 300\mu\text{m}$	$\leq 16 \%$
		Thickness $\geq 310\mu\text{m}$	$\leq 14 \%$
TENSILE STRENGTH	UNI EN ISO 527-3/2/50	CD MPa \geq	45 N/mm^2
		MD Mpa \geq	48 N/mm^2
HEAT SHRINKAGE in % (140\pm2 $^\circ\text{C}$ for 10 Minutes)	ASIA Tech Internal Test	Thickness 100-250 μm	MD ≥ -14 CD $\leq +6 \%$
	ASIA Tech Internal Test	Thickness 260-500 μm	MD ≥ -5 CD $\leq +3 \%$
	ASIA Tech Internal Test	Thickness 510-850 μm	MD ≥ -3 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

ASIA Tech Solutions Group Ltd.

Unit 1502, Beautiful Group Tower, 74-77 Connaught Road, Central. Hong Kong S.A.R. – Office HK +852.8174.6697