

Technical Datasheet (PETGWA804)

APPLICATION:	This PETG WHITE CORE is suitable for the production of all type of high grade cards, such as EMV Bank Cards, ID Cards, IC Contact cards, etc. This material has an excellent stability and provides to the card body a very resistant and durable structure. This PETG can be easily implemented by any card manufacturers since it shows the same workability as standard PVC Core.		
APPEARANCE:	WHITE, BOTH SIDES MATT.		
THICKNESS (μm)	100 - 400 μm		
THICKNESS TOLERANCE ON 100% OF READINGS	Between 100 - 200 μm	$\pm 7 \%$	
	Between 210- 300 μm	$\pm 6 \%$	
	Between 310- 400 μm	$\pm 5 \%$	
PROPERTIES	TEST METHOD	RESPONSE VALUE	
VICAT SOFTENING POINT (1Kg Load in oil as stacked samples)	UNI EN ISO 306 VSTB50	$76 \pm 2 \text{ }^\circ\text{C}$	
DENSITY	ISO 1183-1	$1.32 \pm 0.04 \text{ g/cm}^3$	
SURFACE TENSION	ISO 8296	Best Printing side $\geq 39 \text{ mN/m}$	
		Reverse side $\geq 36 \text{ mN/m}$	
SURFACE ROUGHNESS	ASIA Tech Internal Test	Ra (μm)	Between 0.8~2 μm
		Rz (μm)	-
GLOSSINESS DEGREE in %	ASIA Tech Internal Test	Thickness $\leq 300\mu\text{m}$	-
		Thickness $\geq 310\mu\text{m}$	-
TENSILE STRENGTH	UNI EN ISO 527-3/2/50	CD MPa \geq	-
		MD Mpa \geq	-
HEAT SHRINKAGE in % (105\pm2 $^\circ\text{C}$ for 5 Minutes)	ASIA Tech Internal Test	Thickness 100-200 μm	MD \geq -18 CD \leq +8 %
	ASIA Tech Internal Test	Thickness 210-300 μm	MD \geq -10 CD \leq +5 %
	ASIA Tech Internal Test	Thickness 310-400 μm	MD \geq -8 CD \leq +4 %
TENSILE IMPACT STRENGTH	ISO 8256	$\geq 500 \text{ HJ/m}^2$	

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

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



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