

Technical Datasheet (PETGOVBA805)

APPLICATION:	This PETG TRANSPARENT OVERLAY can be requested either uncoated or coated with a specific glue for a better adhesion. It is highly recommended to use this material in conjunction with Our ATSG-PETGWA804 Core for the best workability results. This PETG Overlay has been specifically designed in order to provide good finishing result after lamination and gives the possibility to make the card body personalization in thermal transfer, Laser Engraving, Embossing, Indent, etc.		
APPEARANCE:	TRANSPARENT, BOTH SIDES MATT.		
THICKNESS (μm)	60 - 120 μm (Coated PETG Overlay min. 80 μm)		
THICKNESS TOLERANCE ON 100% OF READINGS	Between 60 - 80 μm	$\pm 8 \%$	
	Between 90- 100 μm	$\pm 7 \%$	
	Between 110- 120 μm	$\pm 7 \%$	
PROPERTIES	TEST METHOD	RESPONSE VALUE	
VICAT SOFTENING POINT (1Kg Load in oil as stacked samples)	UNI EN ISO 306 VSTB50	74 \pm 2 $^{\circ}\text{C}$	
DENSITY	ISO 1183-1	1.32 \pm 0.04 g/cm ³	
SURFACE TENSION	ISO 8296	Best Printing side \geq 39 mN/m	
		Reverse side \geq 36 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 μm	-
		Thickness \geq 310 μm	-
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 60-80 μm	MD \geq -20 CD \leq +9 %
	ASIA Tech Internal Test	Thickness 90-100 μm	MD \geq -20 CD \leq +9 %
	ASIA Tech Internal Test	Thickness 110-120 μm	MD \geq -16 CD \leq +6 %
TENSILE IMPACT STRENGTH	ISO 8256	\geq 500 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.