

Technical Datasheet (PVC OVBQU801)

APPLICATION:	This PVC TRANSPARENT EXTRA COATED OVERLAY is the results of the selection and combination of high quality resins along with an extra strong glue which make this material suitable for the production of cards having extremely dark background and/or several passes of silkscreen inks. The special extra strong glue used for coating this overlay guarantee excellent adhesion properties in all conditions. A special treatment is also done on this material in order to reach a very clear and smooth effect after lamination and resistance to scratches.		
APPEARANCE:	TRANSPARENT, BOTH SIDES MATT.		
THICKNESS (μm)	40 - 250 μm		
THICKNESS TOLERANCE ON 100% OF READINGS	Between 40 - 80 μm	$\pm 10 \%$	
	Between 90- 150 μm	$\pm 7 \%$	
	Between 160- 250 μm	$\pm 4 \%$	
PROPERTIES	TEST METHOD	RESPONSE VALUE	
VICAT SOFTENING POINT (5Kg Load in oil as stacked samples)	UNI EN ISO 306 VSTB50	$72 \pm 2 \text{ }^\circ\text{C}$	
DENSITY	ISO 1183-1	$1.36 \pm 0.04 \text{ g/cm}^3$	
SURFACE TENSION	ISO 8296	Best Printing side $\geq 40 \text{ mN/m}$	
		Reverse side $\geq 37 \text{ mN/m}$	
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 $\leq 300\mu\text{m}$	$\leq 45 \%$
		Thickness $\geq 310\mu\text{m}$	$\leq 50 \%$
TENSILE STRENGTH	UNI EN ISO 527-3/2/50	CD MPa \geq	40 N/mm^2
		MD Mpa \geq	42 N/mm^2
HEAT SHRINKAGE in % (140\pm2 $^\circ\text{C}$ for 10 Minutes)	ASIA Tech Internal Test	Thickness 40-80 μm	MD \geq -25 CD \leq +13%
	ASIA Tech Internal Test	Thickness 90-150 μm	MD \geq -20 CD \leq +10%
	ASIA Tech Internal Test	Thickness 160-250 μm	MD \geq -6 CD \leq +3 %
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%.

