

Technical Datasheet (PVC OVQUL802)

APPLICATION:	This PVC TRANSPARENT COATED OVERLAY SUITABLE FOR LASER ENGRAVING is the results of the selection and combination of high quality resins along with a specific glue and coating treatment which make this material highly versatile and suitable for the production of all kind of cards that need to be personalized in laser engraving. A special treatment is also done on this material in order to reach a very clear and smooth effect after lamination and a strong 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%. NO Direct sunlight exposure.