

Technical Datasheet (PCOVL79_ID3A)

APPLICATION:	This POLYCARBONATE TRANSPARENT LASERABLE OVERLAY is available either in sheets or in rolls. To be used in conjunction with the Polycarbonate Core PCW79_ID1A for the production of ID Cards, Drive Licenses, E-Passport and all kind of cards that need an extra resistance to heat and flame.		
APPEARANCE:	TRANSPARENT, BOTH SIDES MATT.		
THICKNESS (μm)	50 - 250 μm		
THICKNESS TOLERANCE ON 100% OF READINGS	Between 30 - 80 μm	$\pm 5 \%$	
	Between 90 - 250 μm	$\pm 4 \%$	
PROPERTIES	TEST METHOD	RESPONSE VALUE	
VICAT SOFTENING POINT (5Kg Load in oil as stacked samples)	UNI EN ISO 306 VSTB50	$147 \pm 2 \text{ }^\circ\text{C}$	
DENSITY	ISO 1183-1	$1.20 \pm 0.05 \text{ g/cm}^3$	
SURFACE TENSION	ISO 8296	Best Printing side $\geq 37 \text{ mN/m}$	
		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 $\leq 300\mu\text{m}$	$\leq 16 \%$
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	< 0.5
TENSILE IMPACT STRENGTH	ISO 8256	$> 60 \text{ HJ/m}^2$	

* **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.