

Technical Datasheet (PCOV3L79_ID3B)

APPLICATION:	This POLYCARBONATE TRANSPARENT LASERABLE OVERLAY made by THREE CO-EXTRUDE Polycarbonate layers, available either in sheets or in rolls, is ideal for the production of cards and documents having specific elements such as logo image that need to be personalized in laser engraving. To be used in conjunction with the Polycarbonate Core PCW79_ID1A for the production of ID Cards, Driver Licenses, E-Passport and all kind of cards that need an extra resistance to heat and flame.		
APPEARANCE:	TRANSPARENT, BOTH SIDES MATT.		
THICKNESS (μm)	90 - 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 $^{\circ}\text{C}$	
DENSITY	ISO 1183-1	1.20 \pm 0.05 g/cm ³	
SURFACE TENSION	ISO 8296	Best Printing side \geq 37 mN/m	
		Reverse side \geq 34 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 μm	$\leq 16 \%$
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.