

## Technical Datasheet (PCW79\_ID1A)

<b>APPLICATION:</b>	This POLYCARBONATE WHITE CORE is suitable for the production of ID Cards, Drive Licenses, E-Passport and in general all kind of cards that need to be extra resistant to heat and flame. Specicically designed to reach a very plain and smooth surface for a better printing result in Silkscreen, Offset and Digital Print. Easy to laminate, embedd and suitable for copper wire for contactless cards.		
<b>APPEARANCE:</b>	WHITE, BOTH SIDES MATT.		
<b>THICKNESS ( <math>\mu\text{m}</math> )</b>	105 - 300 $\mu\text{m}$		
<b>THICKNESS TOLERANCE ON 100% OF READINGS</b>	Between 105 - 200 $\mu\text{m}$	$\pm 5 \%$	
	Between 205- 300 $\mu\text{m}$	$\pm 3 \%$	
<b>PROPERTIES</b>	<b>TEST METHOD</b>	<b>RESPONSE VALUE</b>	
<b>VICAT SOFTENING POINT (5Kg Load in oil as stacked samples)</b>	UNI EN ISO 306 VSTB50	147 $\pm$ 2 $^{\circ}\text{C}$	
<b>DENSITY</b>	ISO 1183-1	1.34 $\pm$ 0.05 g/cm <sup>3</sup>	
<b>SURFACE TENSION</b>	ISO 8296	Best Printing side $\geq$ 38 mN/m	
		Reverse side $\geq$ 34 mN/m	
<b>SURFACE ROUGHNESS</b>	ASIA Tech Internal Test	Ra ( $\mu\text{m}$ )	Between 0.7~1.5 $\mu\text{m}$
		Rz ( $\mu\text{m}$ )	Between 5~10 $\mu\text{m}$
<b>GLOSSINESS DEGREE in %</b>	ASIA Tech Internal Test	Thickness $\leq$ 300 $\mu\text{m}$	$\leq 16 \%$
<b>TENSILE STRENGTH</b>	UNI EN ISO 527-3/2/50	CD MPa $\geq$	45 N/mm <sup>2</sup>
		MD Mpa $\geq$	48 N/mm <sup>2</sup>
<b>HEAT SHRINKAGE in % (140<math>\pm</math>2 <math>^{\circ}\text{C}</math> for 10 Minutes)</b>	ASIA Tech Internal Test	Thickness 105-300 $\mu\text{m}$	$< 0.5$
<b>TENSILE IMPACT STRENGTH</b>	ISO 8256	$> 500 \text{ HJ/m}^2$	

\* **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.