



 Transparent 0,5 mm APET anti-reflective front panel. Available for pavement boards and snap-frames to protect poster. Produced in oversize to fit water safe snap-frames with rubber list.

 Transparente 0,5 mm APET Antireflex Frontplatte. Für Straßenstände und Klapprahmen zum Plakatschutz. Produziert in Übergröße um die Gummileiste im Wasserdichten Klapprahmen zu überdecken.

 Gennemsigtig 0,5 mm APET antirefleks frontplade. Bruges til at sætte i gadeskilte og klappammer til beskyttelse af plakat. Produceret i overstørrelse så den passer til vandtætte klappammer med gummiliste.

 **Front panel - model 196 - for pavement boards and snap frames:**
 **Frontplatte - Modell 196 - für Kundenstopper und Klapprahmen:**
 **Frontpanel - model 196 - til gadeskilte og klappammer:**

Model numbers: 122, 123, 125, 127, 128, 130, 129, 131, 226, 228

MODEL	ART. NO.	POSTER SIZE	PANEL SIZE
196	2802	50 x 70 cm	53 x 73 cm
196	2800	A1 59,4 x 84,1 cm	63 x 88 cm
196	2803	70 x 100 cm	73 x 103 cm
196	2801	A0 84,1 x 118,9 cm	88 x 123 cm
196	2804	100 x 140 cm	103 x 143 cm

APET frontpanel is a clear-transparent sheet with high light transmission and gloss: Made from thermoplastic polyester. They offer high impact strength, a good fire rating and are suitable for food-contact applications. Resistant to chemicals and fully recyclable.

Applications - ideal fields of indoor application for APET front panels are: P.O.S. (displays, price tag holders, shelf partitions), poster glazing, poster boards (also backlit), direction signs, promotional symbols, food containers and trays, decorative inserts, pharmaceutical products, flat machine guards. The front panels can be machined and screen printed with ease. Owing to the crystallization properties of polyester, the sheet may turn white during thermoforming. Line-bent APET frontpanels show a hinge effect. For outdoor applications it is recommended to use APET UV frontpanels.

APET front panel thickness: Available in thicknesses of 0,5 mm.

Permanent Service Temperature: The permanent service temperature without load is approx. 60° C.

Fire Rating: Oxygen index (LOI) 25%, ISO 4589. Fire certificates are limited in time, always check if the mentioned certificate is still valid.

Glow wire flammability index, IEC 60695-2-12, in °C: Fire certificates are limited in time, always check if the mentioned certificate is still valid.

		TEST CONDITIONS	TYPICAL VALUES	UNIT TEST	METHOD
Physical	Density		1.33	g/cm ³	ISO 1183-1
	Moisture absorption	after storage in 23°C / 50% RH	0.2	%	ISO 62-4
		after storage in water at 23° C	0.5	%	ISO 62-1
	Refractive index	20° C	1.585	-	ISO 489
Mechanical	Tensile stress at yield		> 55	MPa	ISO 527-2/1B/50
	Elongation at yield		4	%	ISO 527-2/1B/50
	Tensile strength		> 55	MPa	ISO 527-2/1B/50
	Elongation at break		> 25	%	ISO 527-2/1B/50
	Elastic modulus		2500	MPa	ISO 527-2/1B/1
	Limiting flexural stress		ca. 80	MPa	ISO 178
	Impact strength	Charpy, unnotched	no break	kJ/m ²	ISO 179/1fU
	Charpy, notched		ca. 4	kJ/m ²	ISO 179/1eA
Thermal	Izod, notched		ca. 3	kJ/m ²	ISO 180/1A
	Vicat softening temperature	Method B50	75	°C	ISO 306
	Thermal conductivity		0.25	W/m K	DIN 52612
	Coeff. of linear thermal expansion		0.05	mm/m K	DIN 53752-A
	Heat deflection temperature under load	Method A: 1.80 MPa	63	°C	ISO 75-2
		Method B: 0.45 MPa	70	°C	ISO 75-2
Electrical	Dielectric strength		60	kV/mm	IEC 60243-1
	Volume resistivity		10 ¹⁵	Ohm·cm	IEC 60093
	Surface resistivity		10 ¹⁶	Ohm	IEC 60093
	Dielectric constant	at 10 ³ Hz	3.4		IEC 60250
		at 10 ⁶ Hz	3.1		IEC 60250
	Dissipation factor	at 10 ³ Hz	0.015		IEC 60250
		at 10 ⁶ Hz	0.056		IEC 60250