

TOP - Extra Thin Optical Panels

THIN OPTICAL PANELS

SOLID SHEETS 



TOP - EXTRA THIN OPTICAL PANELS

The new Plazit TOP sheets are ultra-high optical quality, thin-gauge polymeric sheets, designed specifically for display applications. Sheets are produced using special ultra-clean materials, the most advanced extrusion lines in the world, rigorous clean room environment, state of the art video quality control and a highly specialized workforce with more than 30 years of experience in extrusion

TOP sheets come in four versions:

TOP PMMA – single layer poly methyl methacrylate (PMMA)

TOP PC – single layer polycarbonate (PC)

TOP 2L – PC/PMMA double layer

TOP 3L – PMMA/PC/PMMA triple layer

Recommended Applications



Cell phone screens and back cases



Ticket machines



Dashboards



Touch screens



Panels

Main advantages

- Thin gauge down to 0.5 mm
- Ultra-high optical cleanness
- Ultra-high light transmission
- Ultra-low haze
- High resistance to breakage
- High flexibility
- Excellent adhesion to hard coating
- Light weight
- Excellent mechanical processability

Typical Properties	Method	Units	Tpo PMMA	Tpo PC	Top ZL	TOP 3L
General						
Density	ISO 1183	g/cm ³	119	1.2	1.2	1.2
Water Absorption	ISO 62 (1)	%				0.15
Flammability (thickness dependent)	UL94					HB, V2
Flammability (2-5 mm)	Euroclass EN13501					B, s1, do
Optical						
Light Transmission	ASTM D 1003	%	< 93	< 90	< 90	< 90
Haze	ASTM D 1003	%	< 0.5	< 0.5	< 0.5	< 0.5
Mechanical						
Tensile Strength at Yield	ISO 527-2	MPa	< 70	< 60	< 60	< 60
Tensile Modulus	ISO 527-2	MPa	3300	2400	240	2400
Elongation at break	ISO 527-2	%	4	< 15	< 15	< 15
Thermal						
Heat Deflection Temp. HDT (1.82 MPa)	ISO 75-1	°C	95	130	130	130
Coeff. of Linear Thermal Expansion	ASTM D696	µm / m °C	6.5	6.5	6.5	6.5

Please note that the technical values given in the table are typical values for guidance and they are subjected to certain variability.

Dimensions

Thickness 0.5, 0.65, 0.8, 1.0, 1.5, 2.0 mm

Width 1250 mm

Other thicknesses may be available upon request.

All sheets are also available cut to size, according to customer requirements.

THE PLAZIT POLYGAL GROUP



With over 40 years experience, the Plazit Polygal Group is one of the leading international specialist manufacturers of thermoplastic sheets for numerous applications, respected worldwide for its wide range of innovative and high quality products and expert technical support.

With our globally spread production plants located in the USA, Chile, Bulgaria, Russia, Spain and Israel we provide fast, close to the market service to our clients worldwide.

As a global group we are committed to providing our customers with outstanding technical and commercial support, continuous product development, flexibility and swift response times - these commitments are key to all our activities.

The Plazit Polygal Group facilities are all certified according to the highest international standards in order to continuously supply superior quality products. Amongst our certifications: ISO 9001, fire and health certifications, as well as other international engineering standards.

Plazit-Polygal Group is a member of EPSE (European Polycarbonate Sheet Extrusion), which groups the leading PC extrusion producers in the world and of EPDA (European Plastics Distribution Association).