

Properties of POLITEM PTEROFLAT-XT SOLID PC Sheets

POLITEM PTEROFLAT-XT PC sheets are highly stable under outdoor weather conditions. Relying on UV radiation persistence, they do not show any substantial variations in their properties even after years of exposure to sunlight.

The protective film must be removed immediately after an outdoor application in order to avoid the risk of permanent adhesion of the film caused by sunlight.

PHYSICAL

Density	: 1.2 g/cm ³	Method: ISO 1183
Water absorption	: 0.15%	Method: ISO 62

OPTICAL

Light transmission	: 81-90% (thickness correlated)	Method: ASTM D1003
Refractive Index	: 1.585	Method: ISO 489 A

Tensile strength	: 60 MPa	Method: ISO 527-2
Elongation at break	: 6%	Method: ISO 527-2
Tensile modulus	: 2300 MPa	Method: ISO 527-2
Flexural modulus	: 2300 MPa	Method: ISO 178
Charpy impact unnotched	: NB	Method: ISO 180/1U
Charpy impact notched	: >65 kJ/m ²	Method: ISO 180/1A

THERMAL

Vicat softening temp. (50N)	: 103 °C (ISO 306)	Method: ISO 306
Heat deflection temp. (1.82 MPa):		Method: ISO 75-1
Thermal conductivity	: 0.2 W/m. °C	Method: ISO 8302
Flammability	: HB, V2	Method: UL-94 class



Handling of POLITEM PTEROFLAT-XT SOLID PC Sheets

Transportation

Dirt and sharp angles may damage the surface in the case of friction. Sheets must be secured to prevent sliding and stable, flat pallets must be used during transportation.

The sheets must not be allowed to slide on each other during loading and unloading operations.

Sheets must be lifted without any dragging.

Storage

- The sheets must be stored in closed places with normal environmental conditions.
- The sheets must be stored one on top of the other on flat horizontal surfaces and fully supported over their total area.
- The topmost panel should be covered with a sheet of polyethylene or cardboard and etc. POLITEM PTEROFLAT-XT Solid PC Sheets must not be stored in direct sunlight or under conditions of high humidity and/or temperature as this can have a negative effect of protective film adhesion.

Manufacturing Certificate

Manufacturing Company : POLITEM PLASTİK VE TEKSTİL PAZ. SAN. DIŞ TİC. A.Ş.

Country of Origin : TURKEY
Address : Veliköy O.S.B Sanayi Bulvarı No: 31 Kapı: 3/A
Çerkezköy – TEKİRDAĞ
Product name : Solid Polycarbonate Sheets
Production method : Extrusion
Protection of the sheets : Both sides covered with polyethylene film