

PTEROFLAT XT PMMA Sound Wall Barrier

Noise induced hearing loss can happen due to continuous exposure to loud sounds over an extended period of time. Long or repeated exposure to sounds at or above 85 dBA can cause hearing loss. Residential and office buildings that are close to railway lines and highways need to include protection from damaging noise levels to protect public health. Politem's PTEROFLAT XT branded acrylic acoustic wall barrier sheets which are specially designed to absorb and reduce sound, provides solution to manage high noise levels in urban and industrial areas that are close to railway lines or highways.

Thanks to it's light weight and virtually unbreakable structure, PTEROFLAT XT acrylic (PMMA) sheets can be installed next to highways and railways conveniently without need of any maintenance for years.

Density	1.19 g/cm ³	Method ISO 1183
Water absorption	0.3%	Method ISO 62 (1)
Flammability	HB	Method UL-94 class
Light Transmission	92%	Method ASTM D1003
Refractive Index	1.49	Method ISO 489 A
Haze	<1%	Method ASTM D1002
Tensile Strength	72 MPa	Method ISO 527-2
Elongation at Break	4%	Method ISO 527-2
Tensile Modulus	3300 MPa	Method ISO 527-2
Flexural Strength	106 MPa	Method ISO 178

Flexural Modulus	3350 MPa	Method ISO 178
Rockwell Hardness	95 M-scale	
Charpy Impact Resistance	15	Method ISO 179/1fu
Izod Notched Impact Strength	1.5 kJ/m ³	Method ISO 180
Charpy Notched Impact Strength	6.0 kJ/m ² (+,- 0.5)	Method ISO 179/1eA
Temp. of Deflection Under Load	95 oC (ISO 75-1)	
Coefficient of Linear Thermal Expansion	0.065 mm/(mx1/ oC) (ISO 11359)	
Vicat Softening Temperature (50N)	103 oC (ISO 306)	
Recommended Continuous Service Temperature	70 C°	
Recommended Maximum Temperature / Short Time	91 C°	

PTEROFLAT XT PMMA Acrylic Sheets do not require not require any UV protective layer.POLITEM Dynamic Plastic provides 10 years of limited warranty for UV resistance.

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