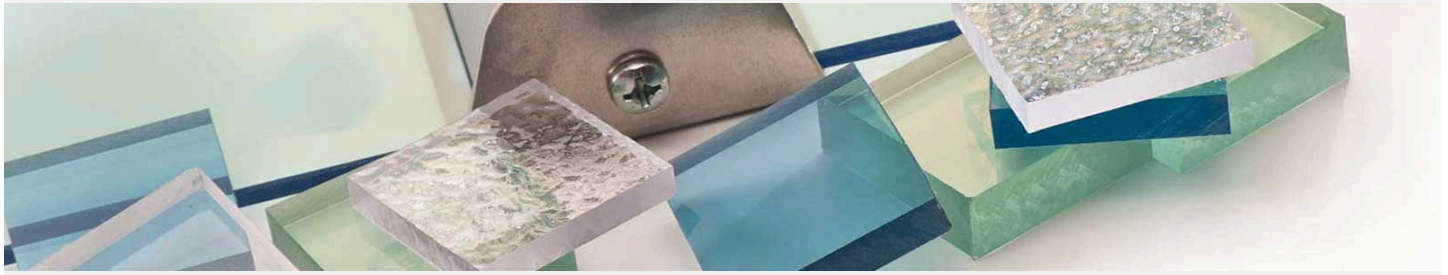

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TILARA® POLYCARBONATE COMPACT SHEET

TILARA Solid Polycarbonate Sheets offer a wide range of properties that make them superior to other thermoplastic sheets and the preferred material for high-performance roofing, glazing, and fabricated solutions.

Tilara Solid Polycarbonate Sheets excel in impact resistance, transparency, and temperature resistance, making them an ideal glazing material for industrial and commercial applications. They also boast excellent fire-retardant properties and are classified as self-extinguishing.

With exceptionally high impact resistance, Tilara Solid Polycarbonate Sheets are widely used for safety glazing and applications subject to high vibrations and accidental impacts, such as noise barriers along highways, visual and noise barriers on bridges, and security barriers. These sheets are 250 times stronger than glass and 25 times more impact-resistant than acrylic sheets.

Additionally, Tilara Solid Polycarbonate Sheets can be engineered for food-grade applications and to enhance fire-retardant properties for specific needs.

Tilara Embossed Polycarbonate Sheets: Tilara Embossed Polycarbonate Sheets offer all the advantages of solid polycarbonate added benefit of excellent light diffusion. This is ideal for skylights and profiled sheets used in tandem with metal, asbestos cement, GI, and other profiled roofing sheet for skylight and daylight cladding applications.

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1 new

Tilara Diamond Polycarbonate Sheets: Featuring a diamond-like surface texture, Tilara Diamond Polycarbonate Sheets are available in attractive colors, making them perfect for decorative applications, residential roofing, and glazing structure coverings. Standard colors include clear, bronze, blue, lake blue, and green, with special colors available for large quantity requirements.

Tilara Solid and Embossed Polycarbonate Sheets are available in roll form for lower thicknesses and are extensively used for manufacturing profiled sheets and thermoformed/vacuum-formed products.

FEATURES

- ✓ Very good thermal insulation
- ✓ Excellent Transparency
- ✓ UV Protected & Durable
- ✓ Wide Temperature Resistance Range (-40°C to 120°C)
- ✓ Fire Retardant (Self Extinguishing)
- ✓ Good Sound Insulation at higher thickness
- ✓ Light in weight
- ✓ Easy to handle, carry and Install
- ✓ Can be fabricated, cut & drilled with conventional tools
- ✓ Environment Friendly (100% Recyclable)

RELATED INDUSTRIES

- ✓ Building & Construction
- ✓ Glazing & Fenestration
- ✓ Machinery & OEM
- ✓ Lighting & Illumination
- ✓ Vacuum Forming
- ✓ Defence & Security Glazing
- ✓ Signage & Advertising
- ✓ Railways, Aerospace & Surface Transport

TILARA® POLYCARBONATE SOLID SHEET

GENERAL			
General Properties	Method	Units	Value
Density	ISO 1183	g.cm ³	1.2

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GENERAL			
Light transmission (Depending on thickness)	ASTM D 1003	%	81-90
Refractive Index	ISO 489		1585
MECHANICAL			
General Properties	Method	Units	Value
Tensile Strength at yield	ISO 527-2	MPa	60
Tensile Modulus	ISO 527-2	MPa	60
Elongation at break	ISO 527-2	%	>100
Elongation at yield		%	6
Flexural Modulus	ISO 178	MPa	2330
Charpy Un-notched	ISO 179	kJ/m ²	Not Break
Izod Impact notched	ISO 180a	kJ/m ²	>65
THERMAL			
General Properties	Method	Units	Value
Temp of deflection (HDT) Under load of 1.8MPa	ISO 75-1	°C	130
Vicat Softening temp (50°C/h 50N)	ISO 306	°C	144
Thermal Conductivity	DN52612	W/m x °C	0.2
Coefficient of linear thermal expansion 0- 50°C	ISO 11359	mm/(m x 1/°C)	0.070
GWFI (Glow-Wire Flammability index)	IEC60695- 2	°C	900
ELECTRICAL			
Volume Resistivity	IES 60093	Ω x cm	3 × 10 ¹⁴

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GENERAL			
Surface Resistivity, dry	IEC 60093	Ω	6×10^{15}
Dissipation Factor 1MHz	IEC 60250		0.009
Dissipation Factor 100Hz	IEC 60250		0.0006

AVAILABLE IN

COLORS

Clear, Opal, Bronze, Green, Blue, Metallic Grey, Pencil Grey, Greenish Blue & Bhagwa

DIMENSIONS

Width: up to 2100mm

Thickness: 1mm to 12mm

TYPE

Options: Embossed texture, Diamond texture, Matte texture, Single & Both sided UV Protection, V0(Fire Retardant).

Specials: Special Transparent, translucent & opaque options available on request.

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SUBSCRIBE US

Sign up for our mailing list to get latest updates and informations from Tilara Polyplast

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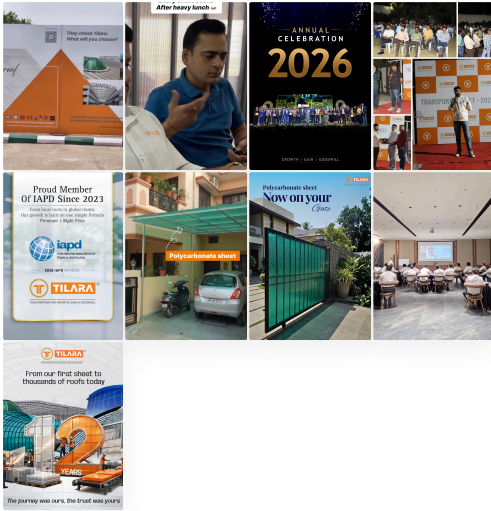
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OUR INSTAGRAM UPDATES



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