

HEAT REDUCING TRANSLUCENT ROOFING



Introduction

Topglass® TopCool is a specialised heat-reducing fibre-reinforced polyester sheeting, designed for industrial, commercial and domestic applications where maximum light transmission with minimal heat transfer is desirable. This product is produced using premium quality raw materials with the latest nanotechnology resins and surface films. It contributes to providing a comfortable environment, and will help reduce energy costs associated with air conditioning and artificial lighting.

Key Benefits

- Nanosphere technology
- Provides substantial savings in energy costs
- Superior long-term reduction of solar heat transfer
- Excellent long-term weathering characteristics
- Superior long-term diffused light properties

Applications

- Industrial and commercial skylights
- Building skylight sidings
- Nursery and retail areas
- Sports venue skylights
- Light diffuser
- Non-delaminating surface technology
- Resistant to degradation and embrittlement
- Outstanding surface erosion resistance
- Resistant to commonplace chemicals

Colours and Tints

Topglass® TopCool comes in one colour only, allowing a light transmission of 40% and a solar transmittance reduction of up to 52.5% from standard plastic sheeting. This is achieved by the fusion of white pigment, polyester resin and nanospheres prior to our unique curing process. This process promotes, superior heat reflecting properties and is a clean, aesthetically pleasing product that enhances even light distribution.

Topglass® TopCool blocks of 99.9% UVA and 100% UVB harmful Ultra Violet Light.

Visible Light and Solar Transmission								
	Colour						Solar heat gain	227w/m ²
Weight	Clear		Opal		TopCool		Shading co-efficient	.33
	Light	Solar	Light	Solar	Light	Solar	Solar heat gain co-efficient	0.20
2400g/m ² (1.5mm)	74%	65%	58%	49%	40%	22%	UVA transmittance	.1%
3660g/m ² (2.5mm)	62%	58%	47%	40%	n/a	n/a	UVB transmittance	0%