

Polycarbonate Technical Sheet

Description

Marlon ST multiwall sheet is a lightweight insulating glazing material manufactured from damage resistant polycarbonate. Marlon ST multiwall sheets are available in a range of thicknesses, structures and options for a wide range of roofing, cladding and glazing applications. Marlon ST has a coextruded UV protection later on one side

Light Transmission

	10mm	16mm	25mm	32mm	35mm
U-Value	3.2 W/m ² K	2.4 W/m ² K	1.4 W/m ² K	1.25 W/m ² K	1.2 W/m ² K
Clear	82%	77%	62%	64%	63%
Opal	40%	42%	28%	33%	33%
Bronze	33%	18%	10%	7%	7%
Heatguard/Opal	-	-	7%	4%	4%
Bronze/Opal	-	-	8%	7%	7%

Maximum Service Temperature (without load)

Marlon ST sheets can be installed in a diversity of applications with varying temperatures. The material's mechanical performance is known to remain stable in prolonged service in temperatures ranging from -20 to +100°C.

Fire Performance

Marlon ST multiwall polycarbonate sheet has good fire behaviour characteristics, and receives high ratings in several major European fire performance tests. As a thermoplastic, Marlon sheet will melt under the intense heat of a fire. However, it will make almost no contribution to a fire through flame spread.