



DAYLIGHTING SYSTEMS

Structural Polycarbonate Systems

Structural Polycarbonate Systems



The diverse nature of Structural Polycarbonate in daylighting systems is only enhanced by the inclusion of Lumira™ aerogel. Rigid and structural polycarbonate provide a myriad of different solutions for nearly every configuration imaginable, while the enhanced natural lighting and thermal insulation mean improved comfort and productivity for occupants.

- **Cost effective insulation:** Past designs required two panels to meet insulation codes - now, one 16mm Lumira panel provides better insulation than two 10mm panels at comparable light transmission values
- **Improved quality of light:** Lumira particles diffuse light evenly through the system (between 55 – 67%)
– preventing annoying glare
- **Sound dampening**
- **Design flexibility**
- **Available in clear and opal**

The following comparison chart is based on a 16mm clear polycarbonate panel with and without Lumira insulation. (The opal performance to light transmission and solar heat gain are 29% and 0.44 respectively.)

	Structural Polycarbonate without Insulation	Structural Polycarbonate with Lumira aerogel insulation
Thermal (R-Value*)	R2.4 (2.36 Wm ² /K)	R4.4 (1.29 Wm ² /K)
Acoustic (STC Value)	19	22
Light Transmission	82%	60%
Solar Heat Gain Coefficient	.83	.60

* R-Value based on center of glass calculation

Most Popular

Investor Information



Cabot is a member of the American Chemistry Council

Copyright 1995-2012 Cabot Corporation. All rights reserved worldwide.