

LEXAN™ Tough
Virtually
Unbreakable
Polycarbonate Sheet
LEXAN is a trademark of SABIC

MULTIWALL POLYCARBONATE



6mm

8mm

10mm

*Twinwall
construction
optimizes
thermal
insulation*

Aisle Containment Panels

“When used in aisle containment systems, multiwall polycarbonate offers a number of benefits including energy efficiency, high impact strength, and cost effectiveness.”

Why LEXAN™ THERMOCLEAR™ Multiwall Polycarbonate?

- ❖ **Fire Performance.** Good fire behavior characteristics, meeting NFPA 75 guidelines for flame spread and smoke development.
- ❖ **Light Transmission.** Translucence allows light to enter contained spaces, keeping aisles well lit for data center personnel.
- ❖ **Sound Insulation.** Acoustic properties help to reduce data center noise levels.
- ❖ **Dimensional Stability.** Retains impact strength and stiffness over a wide temperature range — effective for containing air movement.
- ❖ **Ease of Handling.** Virtually unbreakable. Easy to install, remove, and reinsert for service.
- ❖ **Thermal Insulation.** Twinwall construction enhances thermal performance, increasing energy efficiencies.
- ❖ **Light in Weight.** Lightweight structural material helps to reduce the overall weight of a containment system.
- ❖ **Cost Effective.** Economical alternative to other containment panel options.
- ❖ **Going Green.** LEXAN™ multiwall polycarbonate panels are 100% recyclable.
- ❖ **Other Colors.** Alternate translucent color options are available to best match server cabinets.

“Not all multiwall polycarbonate is created equal.”



Duralight Plastics is a leading supplier of polycarbonate and PVC based plastics for any size project. We offer a wide variety of products, ranging from multiwall and corrugated polycarbonate sheeting to PVC liner panels, interlocking panels, and commercial interior design elements.

www.duralightplastics.com



Aisle Containment Panels

Product Specifications:

6MM POLYCARBONATE PANEL	
Fire Rating	Class A per ASTM E-84
Flame Spread & Smoke Dev.	0 / 85
U-Value	0.62
R-Value	1.6
Weight per Sqft	0.27
Color(s)	Clear, Opal, White, Bronze

8MM POLYCARBONATE PANEL	
Fire Rating	Class A / CC1 per ASTM E-84 & ASTM D-635
Flame Spread & Smoke Dev.	10 / 450
U-Value	0.57
R-Value	1.75
Weight per Sqft	0.31
Color(s)	Clear, Softlite, Opal, Bronze

10MM POLYCARBONATE PANEL	
Fire Rating	Class A / CC1 per ASTM E-84 & ASTM D-635
Flame Spread & Smoke Dev.	5 / 70
U-Value	0.52
R-Value	1.9
Weight per Sqft	0.41
Color(s)	Clear, Opal, Bronze

Polycarbonate Panel Applications:

Aisle Containment Systems

- Hot Aisle Containment
- Cold Aisle Containment

Aisle Containment Door Systems

- Single or Double (Dual) Sliding Doors
- Single or Double (Dual) Pivot Doors
- Single or Double (Dual) Swing Doors
- Aisle End Containment Doors

Aisle Containment Ceiling Systems

- Rigid Roof Containment Panels
- Thermal Drop Ceiling Panels
- Suspended Overhead Panels

Aisle Containment Wall Systems

- Vertical Containment Panels
- Cabinet Filler Panels
- Blanking Panels
- Expandable Hard Wall Panels
- Above Cabinet Rigid Panels
- Floor Mount Rigid Panels
- Hard Wall Partition Kits
- Vertical Wall Barriers
- Overhead Vertical Panels

Pre-assembled panels available



Panels available to fit standard or custom dimensions

Why Duralight Plastics?

- ✦ **Cut to Size.** Panels can be cut to specific lengths and widths, saving install time and labor costs.
- ✦ **Cutting Capabilities.** Panels are produced with:
 - Clean, smooth, straight edges.
 - Flutes free of dust and debris.
 - Tight tolerances to ensure proper fit inside frames.
- ✦ **Frame Fabrication & Assembly Services.** Panels can be ordered fitted with lightweight, anodized aluminum frames for simple and quick installation.
- ✦ **Large On-Hand Inventory.** Product availability with quicker response times — under 1 week lead time.
- ✦ **No Minimum Orders.** Order only the sizes and number of panels your job requires.

Most aisle-containment systems utilize a twin-wall polycarbonate material. The **superior performance properties of LEXAN™ THERMOCLEAR™ over other “like” multiwall polycarbonates** translates into a greater reduction in cooling costs and overall energy consumption.

Fact: The cost of energy has been rising steadily. Reducing energy consumption has become one of the highest priorities of data centers or server rooms. Substantial savings are possible when polycarbonate panels are used in aisle containment systems.



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