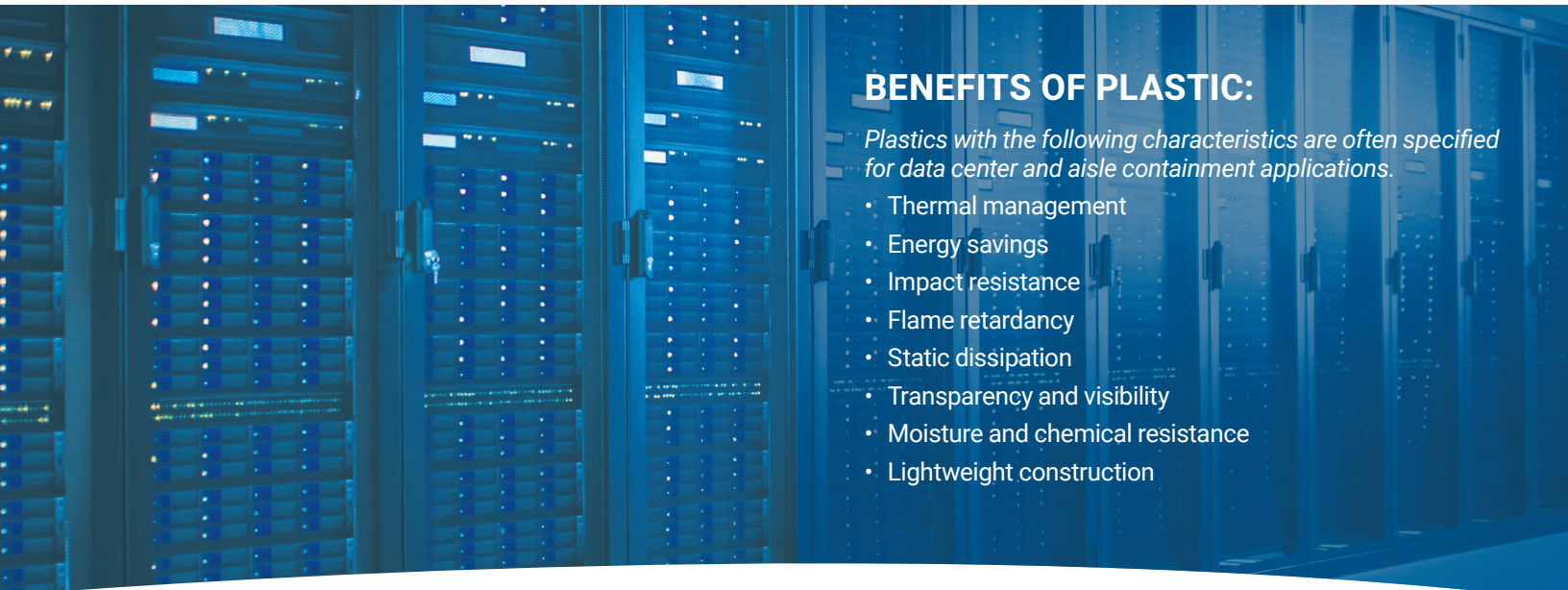


Plastics for Data Centers and Aisle Containment



BENEFITS OF PLASTIC:

Plastics with the following characteristics are often specified for data center and aisle containment applications.

- Thermal management
- Energy savings
- Impact resistance
- Flame retardancy
- Static dissipation
- Transparency and visibility
- Moisture and chemical resistance
- Lightweight construction

Engineering materials to meet your needs

Curbell Plastics offers a wide range of plastic materials to support the growing demands of data centers and aisle containment systems. These environments require lightweight materials, thermal management, static protection, and compliance with fire safety standards—while reducing energy consumption and providing visibility of sensitive electronic equipment.

Plastics are used in a variety of data center applications including hot and cold aisle containment panels, airflow baffles, server rack enclosures, cable management, viewing windows and doors, structural partitions and more.

Material selection, expert advice

"We needed a flame-retardant material for our containment panels that could also withstand frequent impact. Curbell recommended UL 94 V-0 rated polycarbonate, which gave us the durability and safety compliance we required for our data center installation."

– Curbell Customer Feedback

TYPICAL APPLICATIONS:

- Hot aisle containment panels
- Cold aisle containment panels
- Server rack enclosures
- Rack shelving
- Cable management systems
- Viewing windows and doors
- Airflow baffles, barriers, and blanking panels
- Drop ceiling and floor panels
- Dust and debris shields
- Lightweight structural partitions
- Static-dissipative enclosures
- Fire-rated containment panels
- Security and privacy panels and barriers
- Custom-fabricated covers, umbrella covers, turtle-shell covers, and guards

COMMON MATERIALS:

- ABS
- Acrylic
- CPVC
- Expanded PVC
- FRP Profiles
- FRP Sheet
- G10/FR-4 Glass Epoxy
- GPO-3 Profiles
- GPO-3 Thermoset
- HDPE
- Nylon
- PEEK
- PETG
- Polycarbonate
- Polycarbonate Twinwall
- Polypropylene
- PPSU
- PTFE
- PVC
- PVDF
- UHMW
- Ultem®



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