



AI Data Centers Line Card

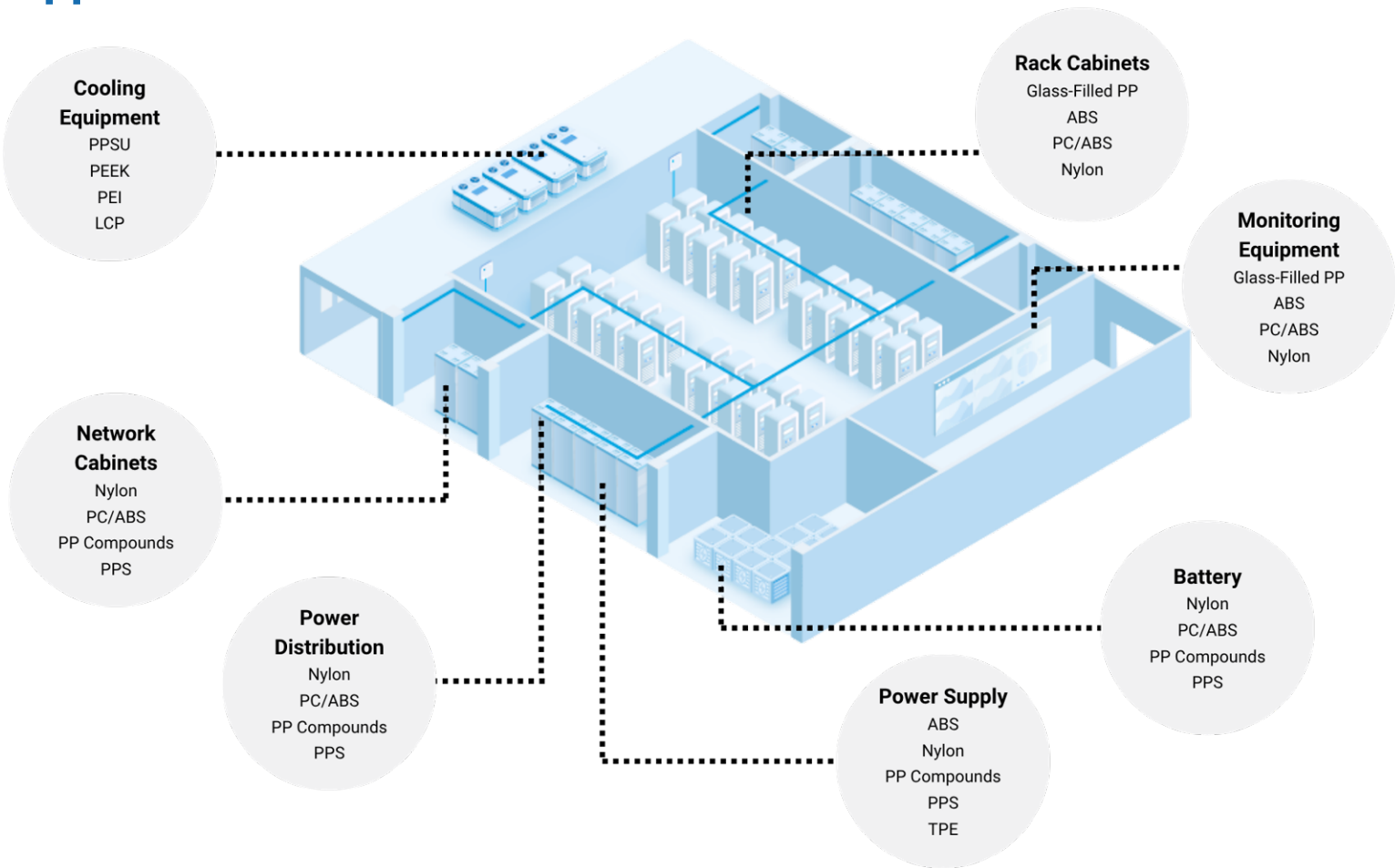
Polymers Powering AI Performance

As AI adoption increases, data centers are rapidly evolving with the growing need for more **resilient material solutions**. From cooling systems to electrical and structural components, these environments demand polymers engineered for **reliability and performance**. Channel Prime Alliance provides a comprehensive portfolio to help meet these evolving requirements, supporting a wide range of applications with **strength, stability, and efficiency**.

Types of Data Centers

Type	Owner	Scale	Main Goal
Enterprise	One company	Small-Medium	Control & security
Colocation	Shared facility provider	Medium-Large	Outsourced infrastructure
Cloud	Service provider	Large	On-demand computing
Hyperscale	AWS, Microsoft, Google, Meta	Very Large	Massive cloud & AI computing
Edge	Various	Small	Low latency & local processing

Applications & Materials



Engineered Thermoplastics Portfolio

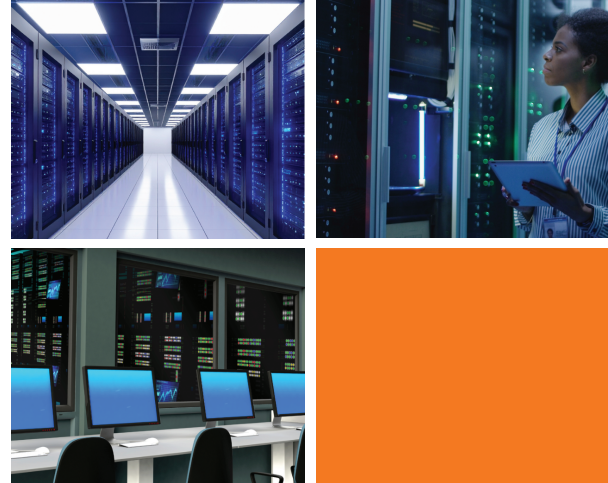
As AI data centers demand greater power density and faster data transmission, **engineering thermoplastics deliver the thermal, mechanical, and electrical performance** needed for power and connectivity applications.

Supplier	Brand	Material Group	Related Applications
BASF	Elastollan®	TPU	Cable jackets, grips, mounts, racks
Celanese	Crastin®, Celanex® & Vandar®	PBT	Connectors, housings, structural parts
Celanese	Fortron®	PPS	High temperature power distribution parts, electrical insulation components
Celanese	Amcel®, Celcon® & Hostaform®	POM	Gears, racks, drawer systems, latches
Celanese	Hytrell®	TPC	Flexible conduits & tubing, shock-absorbing components, seal & gaskets
Celanese	Selar®	PA6	Electrical connectors, clips, brackets, racks
Celanese	Vectra® & Zenite®	LCP	Thin-wall electrical parts, connector housings, EMI-sensitive sensor components
Celanese	Celstran®	LFRT	Structural frames, cable trays & conduits
Celanese	Celanyl®, Eccomid® Frianyl®, Zytel®	PA6, 66 & 612	Electrical connectors, clips, brackets, racks
Celanese	Santoprene®	TPV	Gaskets & seals, cable insulation
Delrin	Delrin®	POM	Gears, racks, drawer systems, latches
Envalior	Akulon® & Durethan®	PA6 & PA66	Electrical connectors, clips, brackets, racks
Envalior	Arnitel®	TPC-ET	Flexible conduits & tubing, shock-absorbing components, seal & gaskets
Envalior	Arnite®	PBT	Connectors, housings, structural parts
Envalior	Xytron®	PPS	High temperature power distribution parts, electrical insulation components
LG Chem	LUMILOY®	mPPE	Sever & power connectors, fiber optic connectors, pump & sensor housings, insulation modules
LG Chem	LUPOY®	PC, PC/ABC*	Windows/display covers, housings, panels
LG Chem	LUMIPLAS®	Diffusion PC	LED lighting lenses, lighting covers, protective transparent barriers, housings
Lotte	Starex®	ABS*	Racks, housings, enclosures, casings
Lotte	INFINO®	PC	Windows/display covers, housings, panels
Ravago Manufacturing Americas	HYLON®	PA66	Electrical connectors, clips, brackets, racks
Ravago Manufacturing Americas	HYBRID, HYLEX® & Tristar®	PC, PC/ABS*	Power distribution equipment housings, connector components, panels, covers
Trinseo	MAGNUM™	ABS*	Racks, housings, enclosures, casings
Trinseo	Emerge™ & Pulse™	PC, PC/ABS*	Windows/display covers, housings, panels
Westlake	PVC Compounds	PVC Compounds	Cable insulation & jacketing, raceway & cable protection systems, wiring

*FR grades available

Polyolefins Portfolio

Polyolefins support efficient and scalable AI data center infrastructure with a **versatile balance of electrical insulation, durability, and processing performance** to support wire, cable, and power distribution components.



Supplier	Brand	Material Group	Related Applications
Advanced Composites	PP Compounds	PP Compounds	Trays, panels, enclosures, housings
Advanced Composites	TPO Compounds	TPO Compounds	Mounts, gaskets, covers, seals
Braskem	Braskem & Inspire® PP	PP	Trays, panels, enclosures, housings
Celanese	Celstran® & Compel®	LFRT PP	Structural frames & chassis, panels
ExxonMobil	ExxonMobil EMA	EMA	Enhanced bonding, softness, compounding & adhesion
ExxonMobil	ExxonMobil EnBA	EnBA	Enhanced bonding, softness, compounding & adhesion
ExxonMobil	ExxonMobil EVA	EVA	Cable jacketing, insulation compounding, semi-conductive shields, protection layers
ExxonMobil	Exact™	POE	Seals, cable insulation, conduit fittings
ExxonMobil	Vistamaxx™	POE	Seals, cable insulation, conduit fittings
ExxonMobil	HDPE	HDPE	Fluid handling piping, housings, barriers
ExxonMobil	LDPE	LDPE	Barrier films, jackets, protective packaging
ExxonMobil	LLDPE	LLDPE	Barrier films, jackets, protective packaging
ExxonMobil	ExxonMobil & Exceed™ PP	PP	Trays, panels, enclosures, housings
Ineos	Ineos PP	PP	Trays, panels, enclosures, housings
Ravago Manufacturing Americas	PP Compounds	PP Compounds	Trays, panels, enclosures, housings
Ravago Manufacturing Americas	RAVATUF®	TPO	Mounts, gaskets, covers, seals

Key Applications

Liquid Cooling Systems

As AI power heats up, liquid cooling becomes essential. Advanced polymers enable leak-tight, chemical resistant components that can withstand continuous thermal cycles and humid environments.

- Manifolds
- Pump Housings
- Tubing
- Fluid Channel Parts

BENEFITS

- ✓ High thermal stability
- ✓ Dimensional stability
- ✓ Dielectric strength
- ✓ Chemical resistance to glycol-based & dielectric coolants

Airflow Containment

Optimizing airflow is critical in data centers, and lightweight, flame-retardant plastics offer flexible, durable solutions for panels, partitions and more.

- Panels
- Ducting
- Partition
- Barrier

BENEFITS

- ✓ Lightweight
- ✓ Customizable shaping
- ✓ Impact resistant
- ✓ Flame-retardant performance

Power Systems

AI data centers demand high-heat and highly-reliable electrical components, and engineered polymers delivery superior dielectric strength while providing property and design benefits over metal.

- Connectors
- Ducts
- Insulation
- Wire & Cable Jackets

BENEFITS

- ✓ High dielectric strength
- ✓ Heat resistant
- ✓ Lightweight
- ✓ Improve manufacturability

Structural Components

From racks to trays, structural elements benefit from strong, lightweight polymers that resist corrosion and reduce installation complexity in modern data centers.

- Racks
- Enclosures
- Trays
- Casings

BENEFITS

- ✓ Corrosion resistance
- ✓ Design flexibility
- ✓ Reduced installation complexity & cost
- ✓ Strong strength-to-weight ratio

Energy Storage

Backup and load-balancing energy systems rely on durable, chemically resistant polymer housings that support safety and weight reduction.

- Battery Housings
- Trays
- Battery Pack Covers
- Fluid Channel Parts

BENEFITS

- ✓ Chemical resistance
- ✓ Lightweight
- ✓ Flame-retardant performance
- ✓ Dimensional stability under temperature & humidity

Data Center Infrastructure

Across insulation, fluid handling, and protective housings, advanced resins help strengthen infrastructure performance with thermal stability, corrosion resistance, and design flexibility.

- Insulation Barriers
- Housings & Enclosures
- Protection Layers
- Fluid Handling Parts

BENEFITS

- ✓ Electrical insulation
- ✓ Corrosion resistance
- ✓ Thermal stability
- ✓ Lightweight

Channel Prime Alliance: Resins. Reliability. Results.™



At Channel Prime Alliance, we're here to make resin distribution seamless. Our team offers resourceful solutions, dependable service, and a personalized approach that takes your projects further, every step of the way. With a diverse product line, strong technical support, and a commitment to reliability, we're more than a distributor- we're your partner for success across the Americas.

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