

Plastics & Thermoset Composites for Electric Power Generation

BENEFITS OF PLASTIC:

- Electrical insulating
- Excellent dielectric strength
- Flame, arc, and track resistance
- Good property retention at elevated temperatures
- Corrosion and chemical resistance
- Moisture and weather resistance
- Friction and wear resistance
- Thermal insulation

Engineered materials for demanding electrical environments

Curbell Plastics supplies a wide range of performance plastics, laminated sheets, and thermoset composites designed to meet the rigorous requirements of the electric power generation industry.

Our materials are trusted in high-voltage, high-temperature, and chemically aggressive environments—delivering reliable insulation, structural integrity, and component durability.

From transformer insulation to switchgear barriers and battery enclosures, we help engineers and maintenance teams improve safety, extend service life, and support consistent system performance.

Material expertise that keeps operations running

"Curbell's team helped us evaluate and select the right GPO-3 panels for electrical insulation within our switchgear system. Their material expertise and quick turnaround on waterjetted parts made it easy to replace old components with minimal disruption."

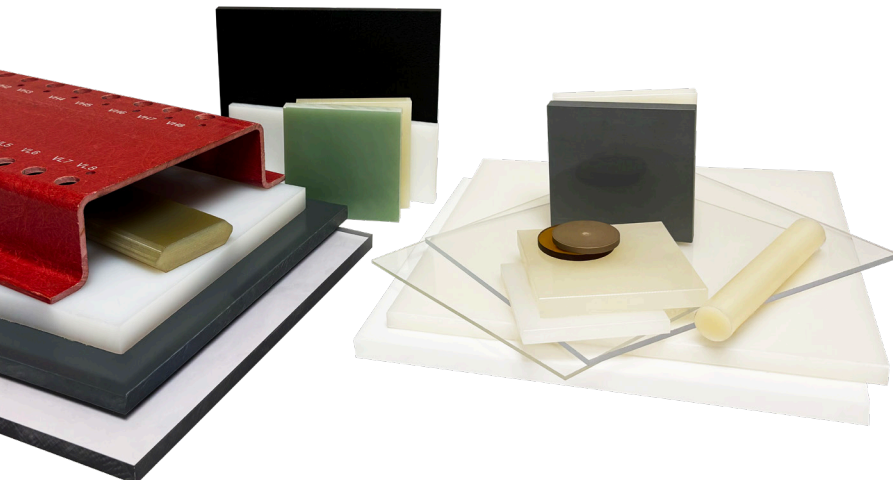
– Power Generation Facility, Curbell Customer Feedback

TYPICAL APPLICATIONS:

- Antenna bases
- Barriers in switchgears
- Bearings
- Bushings
- Busbar supports
- Cable management systems
- Circuit protection devices
- Control panels
- Data centers
- Electric insulation
- Fasteners
- Housings
- Insulating spacers
- Phase and end barriers
- Seals
- Shielding
- Switchgears
- Thermal management plates
- Transformer parts
- Transit flooring

COMMON MATERIALS:

- ABS
- Acrylic
- CPVC
- Flame-Retardant Polycarbonate
- FRP Sheet
- FRP Profiles
- GPO-3 Thermoset
- G10/FR-4 Glass Epoxy
- HDPE
- Nylon
- PEEK
- PETG
- Polycarbonate
- Polypropylene
- PTFE (Teflon®)
- PVC
- PVDF
- UHMW
- Ultem®



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