



One Tough PUPU™

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PUPU® FIBERGLASS SUBSTATION PRODUCTS



FIBERGLASS vs. STEEL OR WOOD

PUPU® fiberglass beams and switch bases are ideal for use in substations and transformer banks. PUPU fiberglass products are proven to be a superior material for supporting electrical conductors, switches and other electrical equipment. Primary advantages over steel or wood:

- Engineered material delivers consistent performance that doesn't diminish over time.
- Excellent electrical insulating properties reduces the risk of shorts and outages.
- High strength-to-weight ratio for light weight assemblies and easy handling.
- Maintenance-free construction. PUPU products never shrink, rot or rust.
- PUPU order leadtimes are often much shorter than other suppliers.

NOT ALL FIBERGLASS PRODUCTS ARE CREATED EQUAL

Unique PUPU product features make us the leading brand of fiberglass crossarms and braces in the electric power industry. These same features make for superior substation products:

- **SunGUARD® UV Resistant** coating is thermally-bonded to all PUPU products to resist the damaging effects of sun and weather – for at least 60 years in any environment! SunGUARD UV® resistant coating eliminates the risk of blooming and other surface damage.
- **TorqueGUARD™** hole reinforcing bushings increase bolt hole strength and prevent damage due to over-torqued bolts.
- **PUPU has over 19 years of experience** supplying fiberglass crossarms to electric power utilities worldwide. GEOTEK, the producer of PUPU crossarms, has over 40 years of experience in the pultrusion of fiberglass structures for outdoor applications.

DESIGNED TO FIT YOUR NEEDS

Our engineering team is experienced and ready to design PUPU solutions for your substation or transformer bank needs. Configurations are available to support nearly any application:

- Crossarms, switch bases, braces, equipment mounts
- Virtually any length or drill pattern is possible
- Numerous profile dimensions are available, including:
 - 2" X 4"
 - 3-5/8" X 4-5/8" standard and heavy duty
 - 3" X 4"
 - 4" X 4" standard and extra heavy duty
 - 4" X 6" heavy duty
 - 5" X 5"
- Factory pre-drilled, or easily drilled on site
- Custom-designed attachment brackets are available

PUPU is a product of:



For more information, contact a PUPU Sales Representative, or visit www.pupicrossarms.com

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PUPI® FIBERGLASS SUBSTATION PRODUCTS



PUPI® PULTRUDED FIBERGLASS BEAM PROPERTIES:

MECHANICAL

Tensile Strength:	ASTM D638	85,000 psi
Tensile Modulus:	ASTM D638	5,500,000 psi
Flexural Strength:	ASTM D790	95,000 psi
Flexural Modulus:	ASTM D790	3,800,000 psi
Compressive Strength:	ASTM D695	60,000 psi

DIELECTRIC STRENGTH

Perpendicular (1/4" thick)	ASTM D149	200 volts per mil
Parallel:	ASTM D149	167 volts per mil

OTHER

Specific Gravity:	ASTM D792	1.86
Water Absorption:	ASTM D570	<1.0% max
Heat Distortion Temperature:	ASTM D648	>180C
Flammability:	ASTM D636	Nonburning
Color:		Grey or Brown

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