

Materials Services  
Engineered Plastics

# Plastic Shapes for the Power Distribution Industry



thyssenkrupp



# thyssenkrupp Engineered Plastics Advantage

For more than 40 years, thyssenkrupp Engineered Plastics has offered customers throughout North America quality products, competitive pricing and an unsurpassed level of service by supplying industrial plastic shapes, standoff insulators, and pultrusions for highly technical industries, such as semiconductor, aerospace, and medical from the world's leading manufacturers including: DuPont, Mitsubishi, Ensinger, Röchling, and many others.

By combining our expertise in the plastics industry with the nationwide logistics network of the thyssenkrupp Materials NA group, we can provide our broad array of plastics inventory complemented by expert sales and applications assistance to industrial plastics users all over North America. So make the call today to 877.246.7700 and discover for yourself what thyssenkrupp Engineered Plastics can do for you.





## Value-Added Processing Capabilities

Take advantage of our value-added capabilities as well as our extensive experience.

### NC Sawing

thyssenkrupp Engineered Plastics offers precision sawing services on all materials using state-of-the-art NC equipment.

### CNC Vertical Machining

Our state-of-the-art CNC vertical machining centers can drill and tap holes, mill down top and side surfaces, mill angles, radius edges countersink, and counter bore.

### CNC Turning

Our CNC lathe with live tooling can turn down OD and bore out ID, drill and tap holes on the OD, drill and tap holes in the ID, mill flat surfaces on round bar, mill angles on round bar, make square rod round, radius edges, and cut-to-length.

### CNC Routing

Our dual-head CNC routers allow us to run two identical parts on the same machine at the same time for increased efficiency. A vacuum table holds the work piece without clamps or vises. Capabilities include circles, discs, square or rectangular parts, mill down surfaces, radius edges, drill, countersink, and counter bore holes.

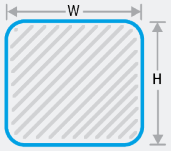
### Fabrication Services

Working closely with customer design and material engineers, thyssenkrupp Engineered Plastics offers additional value by fabricating, polishing, bending, and gluing parts to exact customer specifications. Our customers save both valuable time and money by having these first-stage processing steps completed and delivered just in time to their door.

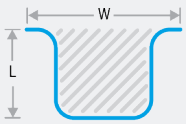


Contact our Plastics Experts Toll-Free at 877.246.7700 or visit [OnlinePlastics.com](https://www.onlineplastics.com)

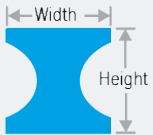
# Our Product Lines



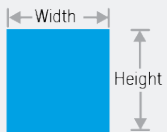
GPO-3 Tubes



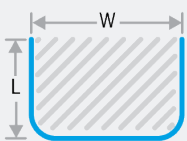
Hat Channel



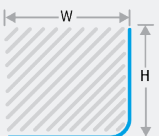
Dogbone Rod



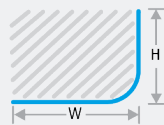
Rectangular Rod



Channel



Equal Leg Angles



Unequal Leg Ang.



Terminal Strips

## Equal Leg Angles

| Part # | Width  | Leg    | Thickness |
|--------|--------|--------|-----------|
| 2878   | 1"     | 1"     | 1/8"      |
| 2889   | 1 1/4" | 1 1/4" | 1/8"      |
| 2879   | 1 1/4" | 1 1/4" | 3/16"     |
| 2880   | 1 1/2" | 1 1/2" | 1/8"      |
| 2881   | 1 1/2" | 1 1/2" | 3/16"     |
| 2882   | 1 1/2" | 1 1/2" | 1/4"      |
| 2883   | 2"     | 2"     | 3/16"     |
| 2884   | 2"     | 2"     | 1/4"      |
| 2885   | 3"     | 3"     | 1/4"      |
| 2886   | 3"     | 3"     | 3/8"      |

## Unequal Leg Angles

| Part # | Width  | Leg      | Thickness |
|--------|--------|----------|-----------|
| 1134*  | 1 3/4" | 2"       | 3/8"      |
| 2891   | 2 1/4" | 3"       | 1/2"      |
| 2876   | 2 1/4" | 1 1/2"   | 3/16"     |
| 1133   | 2 1/2" | 1 1/4"   | 3/16"     |
| 2877   | 2 3/4" | 2"       | 1/4"      |
| 2890   | 6"     | 3"       | 1/2"      |
| 2971   | 2 1/2" | 1 15/16" | 1/8"      |
| 2973   | 4 3/8" | 1 15/16" | 1/8"      |

Parts available in standard 10 ft lengths unless otherwise noted

\*Available in 7 ft lengths

## Channel

| Part # | Width    | Leg      | Thickness |
|--------|----------|----------|-----------|
| 2875   | 2"       | 9/16"    | 1/8"      |
| 2617   | 2"       | 13/16"   | 1/8"      |
| 1144   | 2"       | 1"       | 1/8"      |
| 2261   | 2 3/16"  | 3/4"     | 1/16"     |
| 2212   | 2 5/16"  | 3/4"     | 1/8"      |
| 1177   | 2 9/16"  | 1 7/32"  | 1/8"      |
| 1166   | 3"       | 7/8"     | 1/4"      |
| 2888   | 3"       | 1 1/2"   | 1/4"      |
| 1939   | 3 9/16"  | 2 9/16"  | 3/16"     |
| 1791   | 3 19/32" | 1 1/8"   | 1/8"      |
| 1155   | 4"       | 1 1/8"   | 1/4"      |
| 2242   | 4"       | 1 3/8"   | 3/16"     |
| 2872   | 4 1/2"   | 2 1/2"   | 1/8"      |
| 2874   | 4 1/2"   | 2 1/2"   | 1/4"      |
| 1940   | 4 9/16"  | 2 9/16"  | 9/32"     |
| 1788   | 4 1/4"   | 1 5/8"   | 3/16"     |
| 2825   | 5 1/2"   | 1 1/4"   | 5/32"     |
| 2288   | 6 3/8"   | 2"       | 9/32"     |
| 1844   | 8 1/2"   | 2 11/16" | 3/16"     |
| 2250   | 11 9/32" | 1 5/8"   | 3/8"      |
| 2120   | 11 1/2"  | 1 7/16"  | 5/32"     |

## Hat Channel

| Part # | Width    | Leg    | Thickness |
|--------|----------|--------|-----------|
| 1161   | 4 19/32" | 7/8"   | 1/8"      |
| 2091   | 5"       | 1 3/8" | 1/8"      |
| 1272   | 9 9/16"  | 2 3/8" | 3/16"     |

Looking for GPO profiles, angles, channels, tubes, rods, and dogbone rods?  
Contact us for a quote: 877.246.7700

## Pultruded Tubing

| Black                    |
|--------------------------|
| .406" x .513" x 43"      |
| .625" x .750" x 43"      |
| .816" x .995" x 43"      |
| .890" x 1.07" x 43.5"    |
| 1.07" x 1.25" x 42"      |
| 1.25" x 1.494" x 43"     |
| 1.33" x 1.57" x 43.5"    |
| 1.50" x 1.742" x 42"     |
| 1.75" x 1.994" x 43.5"   |
| 1.962" x 2.86" x 43.5"   |
| 2.125" x 2.492" x 42"    |
| 2.411" x 2.786" x 43.5"  |
| 2.617" x 2.992" x 45"    |
| .632" x .733" x 43.75"   |
| .824" x .990" x 43.7"    |
| 1.012" x 1.240" x 45.75" |
| 1.262" x 1.494" x 45.75" |
| 2.146" x 2.483" x 45.75" |
| .824" x .990" x 43"      |

## Square GPO-3 Tubes

| Width  | Leg    | Thickness |
|--------|--------|-----------|
| 1 1/2" | 1 1/2" | 1/2"      |
| 2"     | 2"     | 1/4"      |

## Dogbone Rod

| MTS/Polyester   | SG-200 Supersil |
|-----------------|-----------------|
| General Purpose | High Temp       |
| 1/4" x 3/8"     | 1/4" x 3/8"     |
| 3/8" x 3/8"     | 3/8" x 3/8"     |
| 3/8" x 1/2"     | 3/8" x 1/2"     |
| 3/8" x 5/8"     | 3/8" x 5/8"     |
| 3/8" x 1/4"     | 3/8" x 1/4"     |
| 1/2" x 1/2"     | 3/8" x 1"       |
| 1/2" x 5/8"     | 1/2" x 1/2"     |
| 1/2" x 1/4"     | 1/2" x 5/8"     |
| 1/2" x 1"       | 1/2" x 1"       |
| 5/8" x 1/4"     | 5/8" x 1/4"     |
| 1/4" x 1"       | 5/8" x 7/8"     |
| -               | 1/4" x 1"       |

## Rectangular Rod

| MTS/Polyester   | SG-200 Supersil |
|-----------------|-----------------|
| General Purpose | High Temp       |
| 1/4" x 1/4"     | 1/8" x 1/4"     |
| 1/4" x 3/8"     | 1/4" x 1/4"     |
| 1/4" x 1/2"     | 1/4" x 5/16"    |
| 1/4" x 5/8"     | 1/4" x 3/8"     |
| 1/4" x 1/4"     | 1/4" x 1/2"     |
| 5/16" x 5/16"   | 1/4" x 5/8"     |
| 5/16" x 1/2"    | 1/4" x 1/4"     |
| 5/16" x 1"      | 5/16" x 5/16"   |
| 3/8" x 3/8"     | 5/16" x 1/2"    |
| 3/8" x 1/2"     | 3/8" x 3/8"     |
| 3/8" x 5/8"     | 3/8" x 1/2"     |
| 3/8" x 1/4"     | 3/8" x 5/8"     |
| 7/16" x 1/2"    | 3/8" x 1/4"     |
| 1/2" x 1/2"     | 7/16" x 1/2"    |
| 1/2" x 5/8"     | 1/2" x 1/2"     |
| 1/2" x 1/4"     | 1/2" x 5/8"     |
| 1/2" x 1 3/8"   | 1/2" x 1/4"     |
| 9/16" x 1"      | 1/2" x 1 1/2"   |
| 9/16" x 1 1/8"  | 9/16" x 1"      |
| 5/8" x 1/4"     | 9/16" x 1 1/8"  |
| 1/4" x 1"       | 5/8" x 1/4"     |
| -               | 1/4" x 1"       |
| -               | 1 1/4" x 1 1/4" |

## Terminal Strips

| Part # | Width  | Leg   | Thickness |
|--------|--------|-------|-----------|
| 2700   | 1 1/4" | 3/8"  | 1/8"      |
| 2710   | 1 1/2" | 7/16" | 1/4"      |

See our entire online catalog at  
[OnlinePlastics.com](http://OnlinePlastics.com)

# Power Distribution Specialties We Serve

We provide products for highly technical industries such as electrical, switchgear, transformer, panel board, and induction heating.



## Induction Heating

SG-200 Grade Sheet  
GPO-3 Grade Sheet  
GPO-3 Grade Angles  
GPO-3 Grade Channels  
High Pressure Laminates

## Switchgear

GPO-3 Grade Sheet  
GPO-3 Grade Angles  
GPO-3 Grade Channels  
Standoff Insulators  
Electrical Grade Polycarbonate  
Copper Busbar  
ITW Formex® FR Polypropylene

## Transformer

GPO-1 General Purpose Sheet (TSF Grade)  
SG-200 Grade Sheet  
Flexible High Temperature (FHT) Grade Sheet  
GPO-2 Grade Sheet  
GPO-3 Grade Sheet  
GPO-3 Grade Angles  
GPO-3 Grade Channels  
GPO-3 Grade Hat Channels  
GPO-3 Grade Terminal Strips  
Standoff Insulators  
Dogbone Rod  
Rectangular Bar

## Panel Board

GPO-3 Grade Sheet  
GPO-3 Grade Angles  
GPO-3 Grade Channels  
Standoff Insulators

## Sheet Products

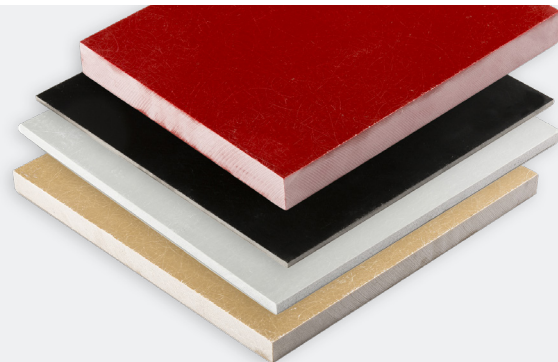
GPO-1 TSF / ETS  
GPO-1 T-160 High Strength  
SG-200 / HSTII  
FHT / H515  
GPO-2 / ETS FRII  
GPO-3 / H900  
1130 Transit Grade  
UL94 Polycarbonate  
PTFE / Teflon™

Colors: Red, White, Black, Grey, Brown, Natural/Tan

## Sheets and Custom Sizes



GPO 1, 2, 3, 1130 Transit Grade, SG-200 High Temp, and Heat Resistant materials are produced using polyester resin and fiberglass reinforcement and are UL recognized.

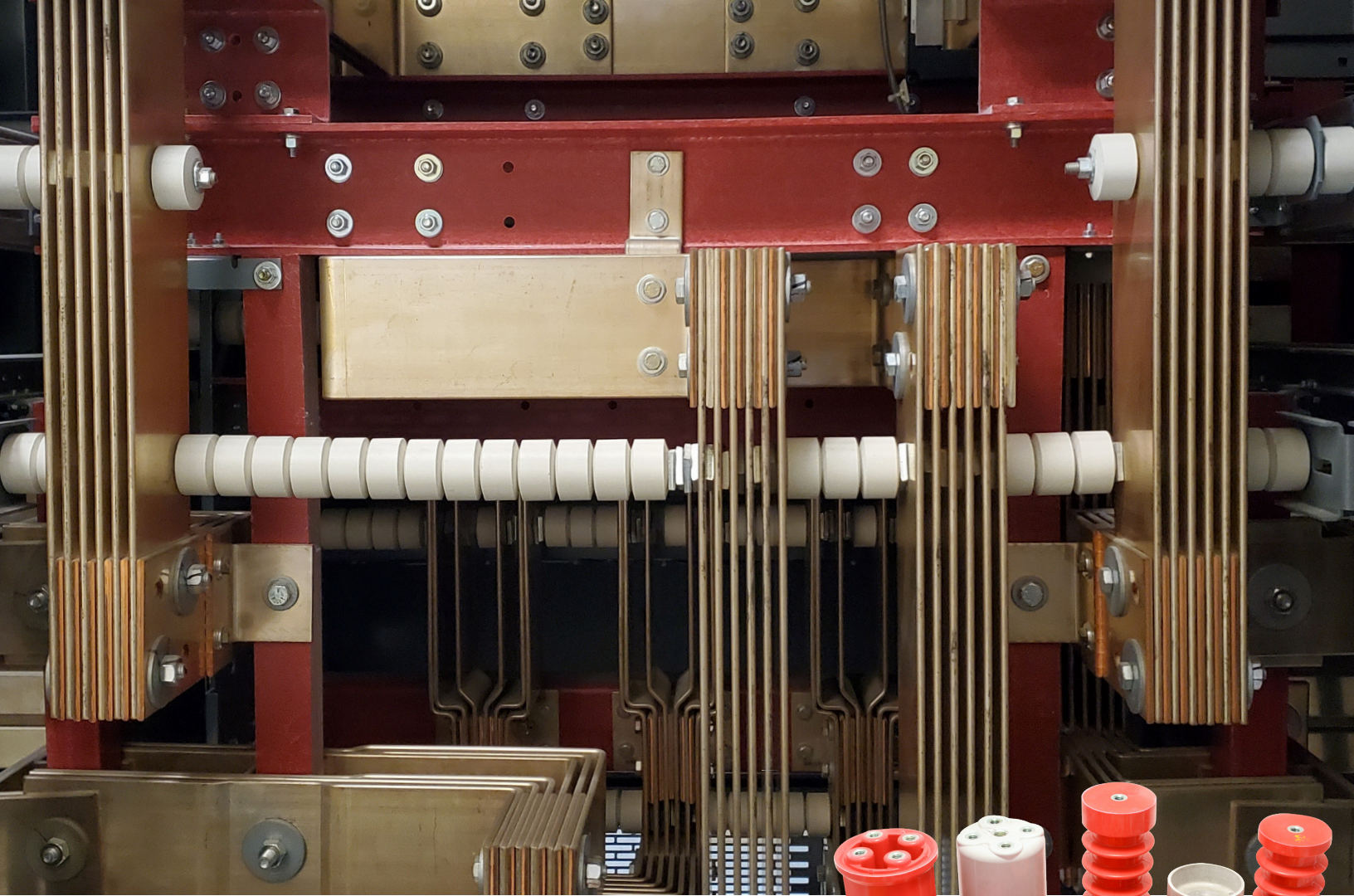


Full GPO sheets available

Sizes: 36" x 72" & 48" x 96"

Thicknesses: 1/32" to 2"

We also cut to size. Call today for a quote: 877.246.7700



## Standoff Insulators

thyssenkrupp Engineered Plastics is the leading North American supplier for the full MarBal® and Glastic® brand portfolios.



## High Pressure Laminates

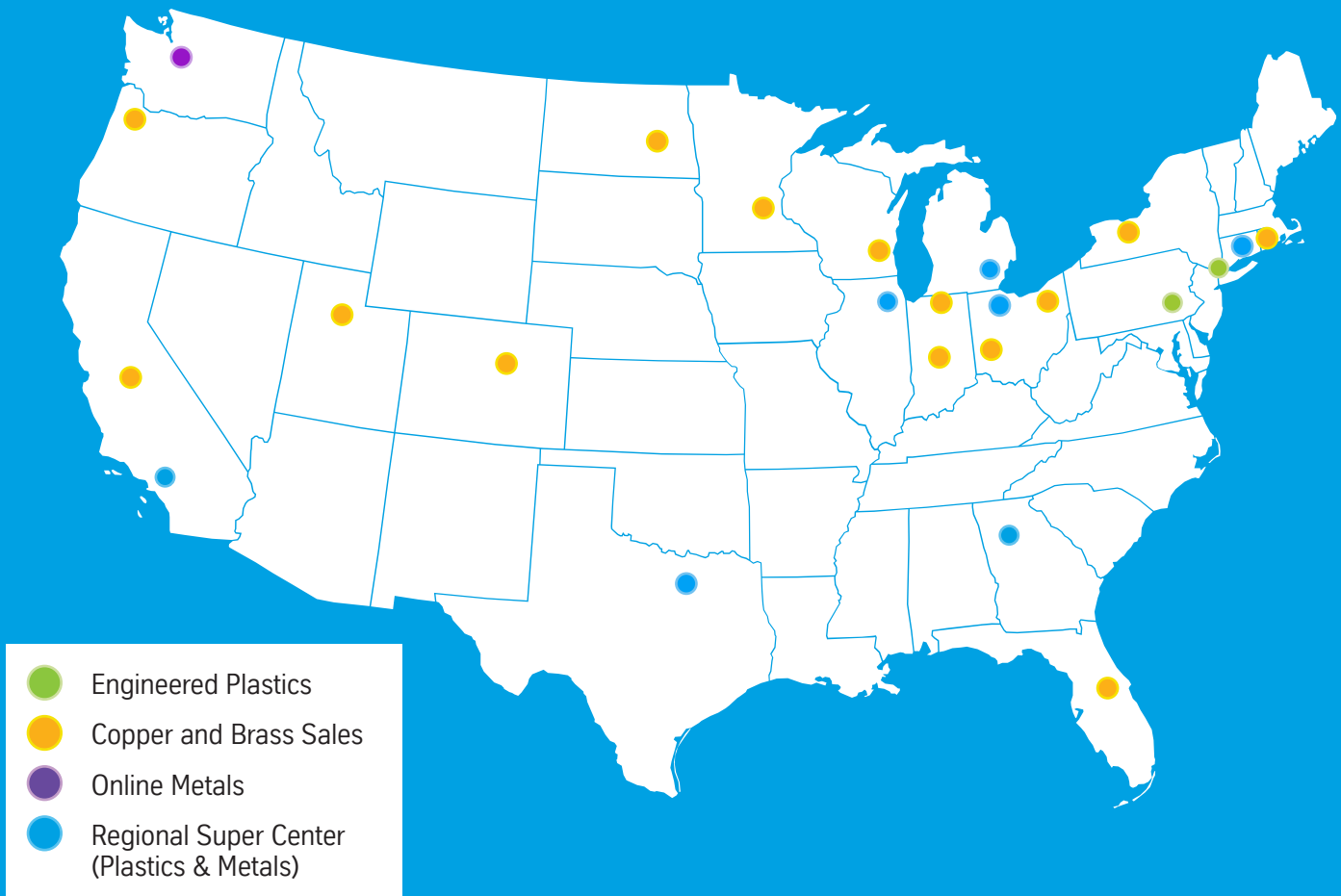
|                     |                        |                         |             |            |             |              |                       |                                |         |
|---------------------|------------------------|-------------------------|-------------|------------|-------------|--------------|-----------------------|--------------------------------|---------|
| C, CE<br>Composites | Copper Clad<br>Extren® | Fiberglass<br>Fishpaper | FR-4<br>G-3 | G-5<br>G-7 | G-9<br>G-10 | G-11<br>L,LE | Micarta®<br>Phelonics | Vulcanized Fibre<br>X, XX, XXX | XP, XPC |
|---------------------|------------------------|-------------------------|-------------|------------|-------------|--------------|-----------------------|--------------------------------|---------|

## Pultrusions

|                    |                       |                               |                                   |
|--------------------|-----------------------|-------------------------------|-----------------------------------|
| GPO-3 Angles       | GPO-3 Terminal Strips | Dogbone Rod MTS / Polyester   | Rectangular Rod MTS / Polyester   |
| GPO-3 Channels     | GPO-3 Tubes           | Dogbone Rod SG-200 / Supersil | Rectangular Rod SG-200 / Supersil |
| GPO-3 Hat Channels | Pultruded Tubing      |                               |                                   |

# Call Us: 877.246.7700

thyssenkrupp Engineered Plastics has multiple strategically placed branch locations throughout the country that feature full inventory and processing capabilities.



## thyssenkrupp Engineered Plastics Strategic Partners



PLASKOLITE



Visit [OnlinePlastics.com](https://OnlinePlastics.com)  
for more information.

AS9100/ISO9001 Location:  
Auburn Hills, MI  
ISO9001 Locations:  
Acworth, GA | Yonkers, NY

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CERTIFIED COMPANY

