

Materials Services
Engineered Plastics

Plastic Shapes for the Electrical Industry

Engineered Plastics Solutions



thyssenkrupp



The 'tkEP Advantage'

For more than 40 years the 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 from the world's leading manufacturers including: Mar-Bal, Röchling Glastic, Liberty Pultrusions 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 the AIN Advantage can do for you.

Industries thyssenkrupp Engineered Plastics Serves

In addition to value added services like fabrication and custom stocking solutions we provide...

Switchgear

- GPO-3 Grade Sheet
- GPO-3 Grade Angles
- GPO-3 Grade Channels
- Standoff Insulators
- Electrical Grade Polycarbonate
- Copper Busbar

Panel Board

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

Transformer

- GPO-1 General Purpose Sheet (TSF Grade)
- SG-200 Grade Sheet
- 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

Induction Heating

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



Value-Added Processing Capabilities

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

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

NC Guillotining Our Seybold air-operated guillotine provides precision shearing of thin gauge materials such as HIPS, PETG and Polycarbonate.

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.

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.

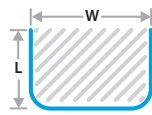
Fabrication Services

Working closely with customer design and material engineers, tkEP 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.

Toll Free: 1.877.246.7700

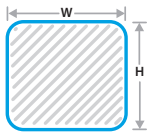
• www.tkengineeredplastics.com

Channel



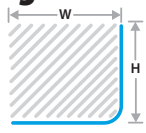
Width	Leg	Thickness	Width	Leg	Thickness
2	9/16	1/8	4	1 3/8	3/16
2	13/16	1/8	4 1/2	2 1/2	1/8
2	1	3/16	4 1/2	2 1/2	1/4
2	1	1/4	4 9/16	2 9/16	9/32
2 3/16	3/4	1/16	4 3/4	1 5/8	3/16
2 5/16	3/4	1/8	5	1 3/8	1/4
2 3/4	1	1/8	5 1/2	1 1/4	5/32
2 9/16	1 7/32	1/8	6	1 5/8	1/4
3	7/8	1/4	6 3/8	2	9/32
3	1 1/2	1/4	8	2 3/16	3/8
3 9/16	2 9/16	3/16	8 1/2	2 11/16	3/16
3 19/32	1 1/8	1/8	9 21/32	1 5/8	1/6
4	1 1/16	1/8	11 9/32	1 5/8	3/8
4	1 1/8	1/4	11 1/2	1 7/16	5/32

GPO-3 Tubes



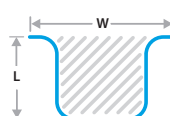
Width	Leg	Thickness
1 1/2	1 1/2	1/8
2	2	1/4

Equal Leg Angles



Width	Leg	Thickness
1	1	1/8
1 1/4	1 1/4	1/8
1 1/4	1 1/4	3/16
1 1/2	1 1/2	1/8
1 1/2	1 1/2	3/16
1 1/2	1 1/2	1/4
2	2	3/16
2	2	1/4
3	3	1/4
3	3	3/8
4	4	1/4

Hat Channel



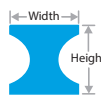
Width	Leg	Thickness
4 19/32	7/8	1/8
5	1 3/8	1/8
9 9/16	2 3/8	3/16

Terminal Strips



Width	Leg	Thickness
1 1/4	3/8	1/8
1 1/2	7/16	1/4
2	-	1/2
2	7/16	1/4
2 1/4	1/2	1/4

Dogbone Rod

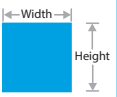


MTS / Polyester General Purpose	SG-200 /Supersil High Temp
1/4 x 3/8	1/4 x 3/8
3/8 x 3/8	3/8 x 3/8
3/8 x 1/2	3/8 x 1/2
3/8 x 5/8	3/8 x 5/8
3/8 x 3/4	3/8 x 3/4
1/2 x 1/2	3/8 x 1
1/2 x 5/8	1/2 x 1/2
1/2 x 3/4	1/2 x 5/8
1/2 x 1	1/2 x 1
5/8 x 3/4	5/8 x 3/4
3/4 x 1	5/8 x 7/8
	3/4 x 1

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 43.75
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"

Rectangular Rod



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

More...

- Standoff Insulators
- Panel and Switchboard
- Round 600 Volt
- Round 4000 Series
- Octagon Center Post 4000 Series
- Octagon Center Post 5000 Series
- Mar-Bal-4000 Insulators
- Apparatus Insulators
- 5Kv Insulators
- 13.5Kv Insulators
- 15Kv Insulators
- Full MarBal® and Glastic® Brand Portfolio



Product Availability

Sheet Products

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

Sheets and Custom Sizes!

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



Full GPO sheets available in
 36"x72"
 48"x96"

Thicknesses from 1/32" to 2"

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

Available Colors:



High Pressure Laminates

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

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

Standoff Insulators

tkEP Plastics is The Leading North American Supplier for...

Full range of Mar-Bal Brand Insulators
 Full range of Glastic Brand Insulators



Aerosol Products

AIN Plastics is pleased to provide SprayWay Black Label, Terrand, and Camie Products including:

- Red Insulating Varnish
- Contact Cleaners
- Coil Cleaners
- Lubricants / Solvents
- Silicone Sprays
- Adhesives



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