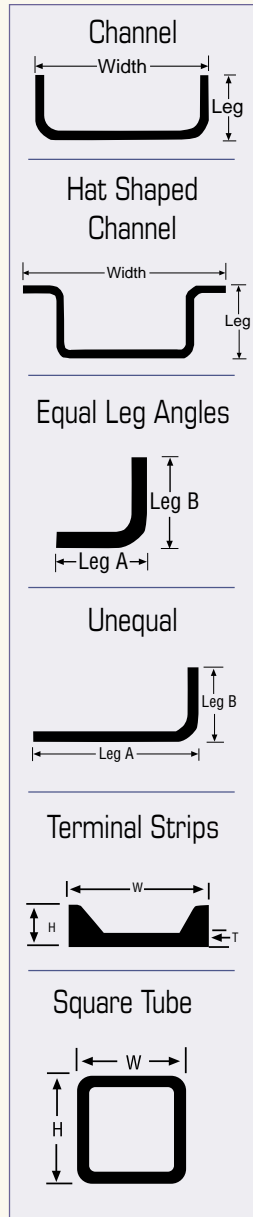


# Electrical Insulating Structural Shapes

## Angles and Channels

### Glastic Electrical Insulating Structural Products

- Grade UTR Pultrusions
- Dimensions are in inches
- All parts are available in standard lengths of 120 inches except 2261 and 2890



CHANNEL			
PART NO.	WIDTH	LEG	THICKNESS
2875	2	9/16	1/8
2617	2	13/16	1/8
1144	2	1	1/4
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
2874	4-1/2	2-1/2	1/4
1940	4-9/16	2-9/16	9/32
1788	4-3/4	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
1936	9-21/32	1-5/8	1/8
2250	11-9/32	1-5/8	3/8
2120	11-1/2	1-7/16	5/32

HAT SHAPED CHANNEL			
PART NO.	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

EQUAL LEG ANGLES			
PART NO.	LEG A	LEG B	THICKNESS
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 NO.	LEG A	LEG B	THICKNESS
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

TERMINAL STRIPS			
PART NO.	HEIGHT	WIDTH	THICKNESS
2700	3/8	1-1/4	1/8
2710	7/16	1-1/2	1/4
2720	---	2	1/2

SQUARE TUBE			
PART NO.	HEIGHT	WIDTH	WALL THICKNESS
F822024	1-1/2	1-1/2	1/8
F822432	2	2	1/4

# Electrical Insulating Structural Shapes

## Angles and Channels

GENERAL INFORMATION	UNIT	ASTM/UL TEST NUMBER	TYPICAL AVERAGE <sup>1</sup> VALUES
Color	----	----	Red
NEMA Grade	----	----	GPO-3
UL Recognition File Number	----	----	E 23525
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength	Psi	D638	15,000
Tensile Modulus	Psi x 10 <sup>6</sup>	D638	1.7
Flexural Strength	Psi	D790	25,000
Flexural Strength at 130° C	Psi	D790	13,000
Flexural Modulus	Psi x 10 <sup>6</sup>	D790	1.2
Compressive Strength-flatwise	Psi	D695	42,000
Compressive Strength-edgewise	Psi	D695	20,000
Shear Strength	Psi	D732	14,500
IZOD Impact Strength (notched)	Ft.lb./in.	D256	9.6
Water Absorption	% by Wgt.	D570	0.3
Barcol Hardness	----	D2583	50
Specific Gravity	----	D792	1.8
<b>ELECTRICAL PROPERTIES</b>			
Electric Strength – perpendicular s/t in air <sup>2</sup>	Vpm	D149	200
Electric Strength – parallel	kV	D149	45
Arc Resistance	Sec.	D495	185
Inclined Plane Track Resistance	Min.	D2303	500+
<b>FLAME RESISTANCE PROPERTIES</b>			
UL Subject 94	----	UL94	VO
<b>THERMAL PROPERTIES</b>			
Coefficient of Thermal Expansion	In/in/° C x 10 <sup>-5</sup>	D696	2.0
Thermal Conductivity	BTU/hr/Ft <sup>2</sup> /in/° F	C177	1.9
UL Temperature Index			
Electrical	° C	UL746B	130
Mechanical	° C	UL746B	160
<b>DIMENSION TOLERANCES</b>			
Thickness			
Up to .125 in.	in.	----	±.015
.125 in. to .250 in.	in.	----	±.020
over .250 in.	in.	----	±.025
Angularity of Legs	Degrees	----	±3
Cut Length	in.	----	+0.5, -0



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