

#### APPLICATIONS:

FABRICATORS

DISPLAY MANUFACTURERS

SLAT-WALL DISPLAY UNITS

MUSEUMS

EXHIBIT HOUSES

POP ASSEMBLERS

PACKAGING SLEEVES

Samples available upon request.

Custom sizes, lengths, and colors available upon request.

**REGULATORY COMPLIANCE:** REACH, RoHS, and Prop 65 compliant

# PETG Tubes, Rods, & Profiles

- Excellent impact strength
- Rod sizes: .062" - 2" OD

Beyond providing exceptional clarity, **Excelon® PETG** profiles offer excellent impact strength, sheet to shape match, equal sheet to shape thermal expansion, and sheet to profile bondability.

Stock PETG profiles for distribution include Z Bar, Step Strip, and U Channels for .060", .080", .100", and .125" sheet gauges. J Bar and Half Round are made-to-order items.

## PHYSICAL PROPERTIES

PROPERTIES <sup>a</sup>	TEST METHOD <sup>b</sup>	VALUE, UNITS <sup>c</sup>
Specific Gravity	D 792	1.30
Water Absorption, 24 hour immersion	D 570	.13%
<b>MOLD SHRINKAGE PARALLEL TO FLOW</b>		
3.2 mm (.125") thickness	D 955	.002-.005 mm/mm
<b>THERMAL PROPERTIES</b>		
Deflection Temperature @ .455 MPa (66psi)	D 648	69°C (157°F)
Deflection Temperature @1.82 MPa (264psi)	D 648	60°C (140°F)
<b>MECHANICAL PROPERTIES</b>		
Tensile Stress @ Break	D 638	30 MPa (4300psi)
Tensile Stress @ Yield	D 638	49 MPa (7100psi)
Elongation @ Break	D 638	150%
Elongation @ Yield	D 638	14.3%
Tensile Modulus	D 638	2010 MPa
Flexural Strength	D 790	71 MPa (10,000 psi)
Flexural Modulus	D 790	2200 MPa (3 x 10 <sup>5</sup> psi)
Rockwell Hardness, R Scale	D 785	106
Izod Impact Strength, Notched @ 23° C (73°F)	D 256	98 3/m (1.8ft-lbf/in.)
Izod Impact Strength, Notched @ -40° C (-40°F)	D 256	27 3/m (.5ft-lbf/in.)
Izod Impact Strength, Unnotched @ 23° C (73°F)	D 4812	NB ft-lbf/in.
Izod Impact Strength, Unnotched @ -40° C (-40°F)	D 4812	NB ft-lbf/in.
<b>OPTICAL PROPERTIES</b>		
Haze	D 1003	.3%
Total Transmittance	D 1003	91%


*Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application*



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**PETG TUBING SIZING CHART**

Round Tube 

ITEM NO.	ID	OD	WALL	FT / CTN
88031	.187	.312	.062	1500
88041	.250	.375	.062	960
88043	.250	.500	.125	600
88061	.375	.500	.062	1200
88063	.375	.625	.125	360
88081	.500	.625	.062	780
88083	.500	.750	.125	300
88101	.625	.750	.062	660
88103	.625	.875	.125	336
88121	.750	.875	.062	450
88123	.750	1	.125	288
88141	.875	1	.062	360
88163	1	1.250	.125	222
88181	1.125	1.250	.062	288
88183	1.125	1.375	.125	210
88165	1.125	1.500	.187	42
88203	1.375	1.500	.125	180
88223	1.500	1.625	.125	162
88243	1.750	1.750	.125	144
88283	1.250	2	.125	108
88323	2	2.250	.125	84
88343	2.250	2.500	.125	72
88363	2.500	2.750	.125	54
88383	2.750	3	.125	48
88483	3	3.250	.125	36
88523	3.250	3.500	.125	36
88563	3.500	3.750	.125	30
88603	3.750	4	.125	30
88763	4.750	5	.125	12
88923	5.750	6	.125	12

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## PETG ROD SIZING CHART

Round Rod

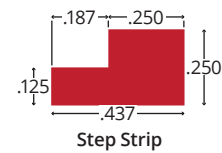
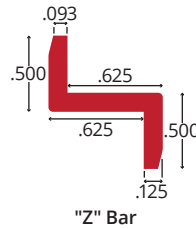


ITEM NO.	OD	FT / CTN
8802	.125	3600
8803	.187	1500
8804	.250	1620
8805	.312	1080
8806	.375	720
8807	.437	480
8808	.500	396
8809	.562	360
8810	.625	270
8811	.750	192
8812	.875	144
8813	1	108
8814	1.125	90
8815	1.250	72
8816	1.375	36
8817	1.500	48

## PETG PROFILES SIZING CHART

Per Piece Shapes

ITEM NO.	SHAPE	FT / CTN
88810	"Z" Bar	288
8881	Step Strip	840



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