

APPLICATIONS:

P.O.P. DISPLAYS
DISPENSING BOXES
MUSEUM EXHIBITS
RETAIL STORAGE
& DISPLAY
CHANDELIERS
FURNITURE
NOVELTY ITEMS
TROPHIES
TOWEL BARS
MAGNIFIER BARS
JEWELRY DISPLAYS
SLOT WALL SUPPORT
RULERS
SPA FIXTURES
MODEL SHOPS
DECORATIVE
ARCHITECTURALS
LAB FIXTURES
KITCHEN FIXTURES
OIL TANK SIGHT GAUGE

AVAILABLE IN:

- CLEAR
- FROSTED
- COLORED
- DR HIGH IMPACT

Samples available upon request.

Stock lengths are 6'. Custom lengths, sizes, and colors are available upon request.

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

CAUTIONS: Since acrylics are combustible, appropriate fire precautions should be observed. For building use, check for national and local codes. Impact resistance depends upon mounting, conditions of use, material thickness and surface integrity. Avoid exposure of acrylics to heat and aromatic solvents. Clean with soap or detergents and water only. Avoid abrasive cleaners.

Extruded Tubes, Rods, & Profiles

- Wide range of applications in the display, design and decor market
- Can be heat-formed for a variety of desired effects
- Easily imprinted or embossed
- Sunlight and wear resistance
- Indoor and outdoor use
- More economical than glass
- Acrylic extrusions are easily sawed, drilled, milled, engraved and finished
- Solvent bonding of properly fitting parts produces a strong, invisible joint


Acrylic's refractive characteristics create a play of light that shows quality and design details to best advantage. Acrylic rod can be readily heat-formed or bent to re-direct light. Its striking prismatic quality makes Excelon® Acrylic particularly conducive to chandeliers and other lighting fixtures.

Prolonged exposure to moisture, or even total immersion, does not significantly affect Acrylic, causing no evident warping, swelling or loss of transparency.

Excelon® Acrylic extrusions have excellent sun-resistance, maintaining their sparkle and bright new look even in the harshest weather. Thermoplastic Processes' extrusions are ideal for long-life outdoor applications such as illuminated signs.

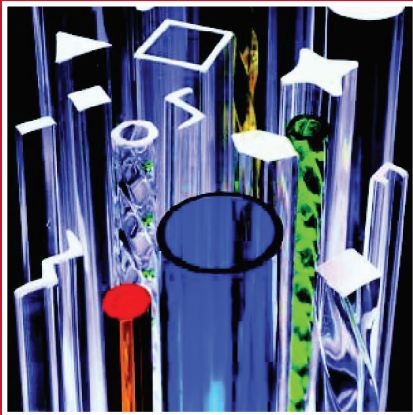
Acrylics are unaffected by aqueous solutions of most common laboratory chemicals, by detergents, cleaners, dilute inorganic acids, alkalis, and aliphatic hydrocarbons. Acrylic is not recommended for use with chlorinated or aromatic hydrocarbons, esters and ketones.

ACRYLIC TUBING SIZING CHART

Round Tube 

ITEM NO.	ID	OD	WALL	FT / CTN
54021	.125	.250	.062	1800
54023	.125	.375	.125	930
54031	.187	.312	.062	1080
54041	.250	.375	.062	1200
54043	.250	.500	.125	660
54061	.375	.500	.062	1200
54063	.375	.625	.125	360
54081	.500	.625	.062	780
54083	.500	.750	.125	300
54101	.625	.750	.062	660
54103	.625	.875	.125	336
54121	.750	.875	.062	450
54123	.750	1	.125	288
54141	.875	1	.062	390
54163	1	1.250	.125	222
54165	1.125	1.500	.187	42
54168	1	1.500	.250	42
54181	1.125	1.250	.062	288
54183	1.125	1.375	.125	210
54203	1.250	1.500	.125	180
54223	1.375	1.625	.125	162
54225	1.500	1.875	.187	36
54228	1.375	1.875	.250	36
54243	1.500	1.750	.125	144
54245	1.625	2	.187	36
54248	1.500	2	.250	36
54283	1.750	2	.125	108
54285	1.875	2.250	.187	40

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Round Tube (continued)

ITEM NO.	ID	OD	WALL	FT / CTN
54288	1.750	2.250	.250	30
54305	2	2.375	.187	30
54308	1.875	2.375	.250	30
54323	2	2.250	.125	84
54325	2.125	2.500	.187	24
54328	2	2.500	.250	24
54343	2.250	2.500	.125	72
54345	2.375	2.750	.187	24
54363	2.500	2.750	.125	54
54365	2.625	3	.187	18
54368	2.500	3	.250	18
54383	2.750	3	.125	48
54483	3	3.250	.125	36
54485	3.125	3.500	.187	36
54488	3	3.500	.250	36
54523	3.250	3.500	.125	36
54563	3.500	3.750	.125	30
54565	3.625	4	.187	30
54568	3.500	4	.250	30
54603	3.750	4	.125	30
54605	3.875	4.250	.187	24
54608	3.750	4.250	.250	24
54645	4.125	4.500	.187	18
54648	4	4.500	.250	6
54683	4.250	4.500	.125	36
54725	4.625	5	.187	12
54728	4.500	5	.250	12
54763	4.750	5	.125	12
54923	5.750	6	.125	6
54943	6.750	7	.125	6

Custom sizes from .250" – 10" OD.

Square Tube



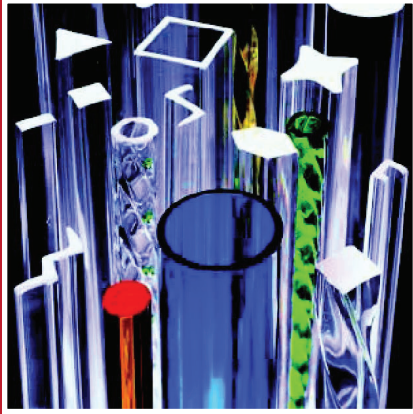
ITEM NO.	ID	OD	WALL	FT / CTN
5651	.375	.500	.062	750
5653	.625	.750	.062	540
5654	.875	1	.062	420
5690	1	1.250	.125	240
5694	1.750	2	.125	90
5695	2	2.250	.125	72

Spiral Twist Tube



ITEM NO.	ID	OD	WALL	FT / CTN
56812	.375	.625	.125	480

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ACRYLIC ROD SIZING CHART

Round Rod



ITEM NO.	OD	FT / CTN
5501	.062	13500
5502	.125	3600
5503	.187	1500
5504	.250	1620
5505	.312	1080
5506	.375	720
5507	.437	480
5508	.500	396
5509	.562	360
5510	.625	270
5511	.750	192
5512	.875	144
5513	1	108
5514	1.125	90
5515	1.250	72
5516	1.750	36
5517	1.500	48
5520	2	30

Half Round Rod



ITEM NO.	SIZE	FT / CTN
5605	.375	1200
5610	.500	480
5612	.750	300
5613	1	210

Right Triangle Rod

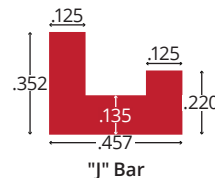
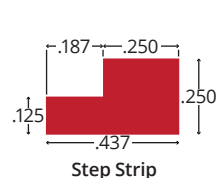


ITEM NO.	SIZE	FT / CTN
5600	.250	2040
5601	.500	390
5603	.750	240
5604	1	180

ACRYLIC PROFILES SIZING CHART

Per Piece Shapes

ITEM NO.	SHAPE	FT / CTN
5681	Step Strip	840
5680	"J" Bar	900
5627	"W" Bar	480
5646	DR "W" Bar	480
56810	"Z" Bar	480
5648	DR "Z" Bar	480



Square Rod



ITEM NO.	SIZE	FT / CTN
5630	.125	5550
5629	.187	2400
5631	.250	1296
5632	.375	576
5633	.500	300
5634	.625	270
5635	.750	168
5636	1	108
5637	1.250	48

Spiral Twist Rod



ITEM NO.	SIZE	FT / CTN
5621	.625	270
5622	.750	120
5623	1	90

Equilateral Triangle Rod



ITEM NO.	SIZE	FT / CTN
5609	1	192

Triprism Rod



ITEM NO.	SIZE	FT / CTN
5608	1.250	84

Quad Prism Rod



ITEM NO.	SIZE	FT / CTN
5607	1.375	90

Hexangle Rod

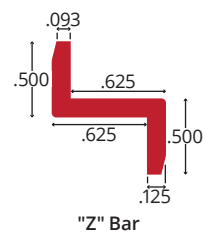
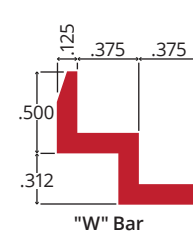


ITEM NO.	SIZE	FT / CTN
5625	1	180

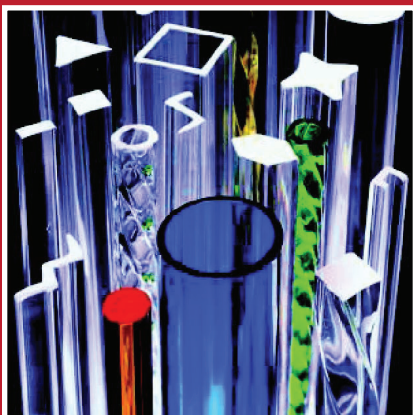
Rectangular Strip



ITEM NO.	SIZE	FT / CTN
5639	.125 x .375	1800
5640	.125 x .625	960
5641	.250 x .500	720
5642	.187 x .750	672
5643	.250 x 1	360



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PHYSICAL PROPERTIES

	PARAMETER	ASTM METHOD	ACRYLIC POLYMER
MECHANICAL PROPERTIES			
Tensile Strength	—	D 638	9200 psi [63.4 MPa]
Tensile Modulus	—	D 638	.47 x 10 ⁶ psi [3.2 GPa]
Tensile Elongation @ Yield	—	D 638	2 - 4%
Tensile Elongation @ Break	—	D 638	2 - 4%
Flexural Strength	—	D 790	15500 psi [106.9 MPa]
Flexural Modulus	—	D 790	.46 x 10 ⁶ psi [3.2 GPa]
Notched Izod	.25" bar @ 23C	D 256	.36 ft-lb/in [19 J/m]
Rockwell Hardness (M Scale)	—	D 785	89
THERMAL PROPERTIES			
Vicat Softening Point	264 psi	D 1525	194°F (90°C)
Deflection Temperature, Annealed	1.8 MPa, .25"	D 648	180°F (82°C)
Coeff. of Linear Therm. Expansion	32 - 312°F (0 - 100°C)	D 696	.00004 in/in °F (.000072 mm/mm °C)
RHEOLOGICAL PROPERTIES			
Melt Flow Rate	230°C & 3.8 kg	D 1238	24 g / 10min
OPTICAL PROPERTIES (D = 3.2 MM)			
Light Transmission	—	D 1003	92%
Haze	—	D 1003	< 1%
Yellowness Index	—	D 1925	< 1%
OTHER PROPERTIES			
Specific Gravity	—	D 792	1.19
Max Water Absorption	—	D 570	.3%
Mold Shrinkage	—	D 955	.003 - .006/in/in (.076 - .15 mm/mm)
Bulk Density	—	D 1895	.66 g/cc

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.

T Thermoplastic
Processes

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LIABILITY CLAUSE

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