



# STANDARD TUBE TOLERANCES

Released Jan. 2021

(ALL DIMENSIONS IN INCHES)

## ROUND TUBING

Type	Wall Thickness	Wall	Inside Diameter			Outside Diameter				Length (saw cut)		
			0.118-1.499	1.500-2.499	2.500-5.000	0.118-1.499	1.500-2.499	2.500-5.000	5.001+	<72	>72	>4.0 ID
Standard Modulus, Intermediate Modulus, High Modulus.	0.020-0.117	±0.005	±0.003	±0.005	±0.008	±0.008	±0.010	±0.012	Part Specific	±0.030	±0.125	±0.125
	0.118-0.187	±0.010				±0.012	±0.014	±0.016				
	0.188-0.290	±0.012				±0.020	±0.022	±0.024				
Ultra High Modulus (UHM)	0.020-0.117	±0.005				±0.010	±0.012	±0.014				
	0.118-0.187	±0.010				±0.014	±0.016	±0.018				
	0.188-0.290	±0.012				±0.022	±0.024	±0.026				
Colored Tubing, Ferrule Tubing, Fiberglass.	0.020-0.117	±0.005				±0.016	±0.020	±0.024				
	0.118-0.187	±0.010				±0.024	±0.028	±0.032				
	0.188-0.290	±0.012				±0.040	±0.044	±0.048				

## CF SHAPED TUBING

Shape	Wall Thickness	Wall	Inside Diameter			Outside Diameter				Length (saw cut)		
			0.118-1.499	1.500-2.499	2.500-5.000	0.118-1.499	1.500-2.499	2.500-5.000	5.001+	<72	>72	>4.0 ID
Square	0.030-0.080	±0.012 (±0.024 in corners)	±0.010	±0.015	±0.018	±0.018	±0.025	±0.030	Part Specific	±0.030	±0.125	±0.125
Rectangular						±0.030	N/A					
Hexagonal		±0.012										

## GD&T

OD variation within tube	.005in/in	
OD roundness within tube	0.008	
Cut Perpendicularity	0.005/in	
Straightness	0.008/ft	0.040/full length (6-8ft)

**NOTE: Tighter tolerances are available on most features. Contact our Sales Team for details.**

