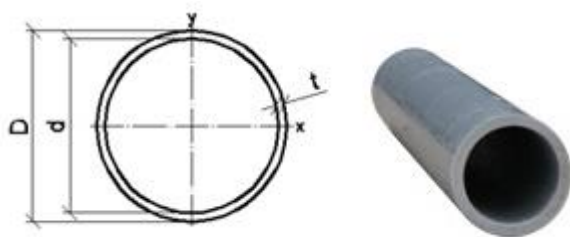


Round Tube



Outside Diameter	Inside Diameter	Thickness	Area	Weight	X – X axis or Y - Y axis		
					I	W	i
D mm	D mm	t mm	A mm ²	M kg/m	I mm ⁴	W mm ³	i mm
31,75	25,40	3,18	285	0,49	29469	1857	10,17
38,10	3,75	3,18	348	0,60	53569	2812	12,40
Mechanical properties (standart LVS EN ISO 527)						Units	M1, P1 Series
Tensile Strength (LW)						MPa	170,0 – 226,9
Tensile Strength (CW)						MPa	24,0 – 40,0
Crushing Stress (LW)						MPa	219,0 – 226,0
Crushing Stress (CW)						MPa	50,0 – 114,0
Flexural Strength (LW)						MPa	170,0 – 226,9
Flexural Strength (CW)						MPa	70,0 – 75,6
Strength At The Cut						MPa	15,0 – 25,0
Elastic Modulus (LW)						GPa	17,0 – 22,0
Elastic Modulus (CW)						GPa	25,0 – 16,0
Shear Modulus						GPa	2,9 – 3,4
Poisson's Ratio (LW)						mm/mm	0,35

Poisson's Ratio (CW)	mm/mm	0,15
Elongation		0,2 – 1,9%

Physical (LVSENISO 527)		
Barcol Hardness		45
Water Absorption	%Max	0,6
Density, Specific Gravity	Mg / M ³	1,66-1,93
Coefficient of Thermal Expansion (LW)		8
Thermal Conductivity (PF)	W/MK	0,58

Electrical properties		
Dielectric Strength (LW) (test standard IEC 60234)	kV/mm	till 1,58
Dielectric Strength (PF) (test standard IEC 60234)	kV/mm	till 7,9
Arc Resistance (LW)	seconds	120
Dielectric Constant (PF)	60 Hz	5,2