



Tufnol Whale Rod

The table below shows the dimensional tolerances permitted on moulded round rods. These tolerances are based on the relevant British Standards or BS EN Standards.

Tufnol Round Rods are normally supplied with a ground outside diameter.

All sizes and tolerances quoted are in millimeters.

Dimensional tolerances specified are **PLUS AND MINUS** from the nominal size.

Moulded round rod tolerances based on BS EN 61212 3-3

Maximum deviation from nominal external diameter

Nominal Diameter	Maximum Deviation
<25	0.15
>25/<50	0.25
>50/<75	0.30
>75/<100	0.35

Tolerance on Straightness

Nominal Length	Maximum Deviation
1220	4.5
610	1.3

Direct Plastics Ltd. Rother Valley Way, Holbrook, Sheffield, S20 3RW

The following information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. Existing commercial patents must be observed. A definitive quality guarantee is given in our general conditions of sales. Unless otherwise stated, these values represent averages taken from injection moulding samples.

We reserve the right of technical alterations.

Tufnol

Material Tolerance



The table's below shows the dimensional tolerances permitted on Tufnol laminated sheets in the 'as moulded' condition. These tolerances based on the relevant British Standards or BS EN Standards for each Tufnol grade.

All sizes and tolerances quoted are in **millimetres**

Tolerances specified are **PLUS AND MINUS** from the nominal size. For example, reading from the table below, a Paper Based Tufnol sheet of 3.0mm nominal thickness may vary in thickness from 2.75mm to 3.25mm.

Notes: Due to manufacturing process, sheet thickness can vary at any point across the entire sheet area and the below tolerances apply to any point over the entire sheet surface.

Tufnol Whale Sheet

Nominal Thickness	Tolerance in mm
1	-0.16 to +0.16
2	-0.21 to +0.21
3	-0.26 to +0.26
4	-0.32 to +0.32
5	-0.36 to +0.36
6	-0.40 to +0.40
8	-0.49 to +0.49
10	-0.56 to +0.56
12	-0.64 to +0.64
15	-0.76 to +0.76
20	-0.87 to +0.87
25	-1.02 to +1.02
30	1.12 to +1.12
40	1.35 to +1.35
50	1.55 to +1.55

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Tufnol Material Tolerance



Tufnol 1P/13 Sheet

Nominal Thickness	Tolerance in mm
1	-0.12 to +0.12
2	-0.19 to +0.19
3	-0.25 to +0.25
4	-0.30 to +0.30
5	-0.34 to +0.34
6	-0.37 to +0.37
8	-0.47 to +0.47
10	-0.55 to +0.55
12	-0.62 to +0.62
15	-0.75 to +0.75
20	-0.86 to +0.86
25	-1.00 to +1.00

Tufnol Kite Sheet

Nominal Thickness	Tolerance in mm
1	-0.12 to +0.12
2	-0.19 to +0.19
3	-0.25 to +0.25
4	-0.30 to +0.30
5	-0.34 to +0.34
6	-0.37 to +0.37
8	-0.47 to +0.47
10	-0.55 to +0.55
12	-0.62 to +0.62
15	-0.75 to +0.75
20	-0.86 to +0.86
25	-1.00 to +1.00

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Tufnol Material Tolerance



Tufnol 10G/40 Sheet

Nominal Thickness	Tolerance in mm
1.6	-0.24 to +0.24
2	-0.28 to +0.28
3	-0.37 to +0.37
4	-0.45 to +0.45
6	-0.60 to +0.60
8	-0.72 to +0.72
10	-0.82 to +0.82
12	-0.94 to +0.94
16	-1.12 to +1.12

Flatness Tolerances of Tufnol Sheet

The below table is the maximum deviation from flat over a distance of 1000mm using a straight edge.

Nominal Thickness	Variation
1.6 - 3mm	Up to 18mm
3-6mm	Up to 10mm
6-8mm	Up to 8mm
>8mm	Up to 6mm

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