What is claimed is:

1. A toothbrush comprising:

a head section which is disposed at a front end side and in which a bristle bundle is implanted in a bristle implanting surface;

a neck section extending from a rear end side of the head section; and

a handle section extending from a rear end side of the neck section,

wherein the head section has a thickness of 2.0 to 4.0 mm,

wherein the neck section is formed such that a minimum value of a width of the neck section in a direction that is parallel to the bristle implanting surface and orthogonal to a length direction of the handle section is 3.5 mm to 4.5 mm, and the width is constant or gradually increases toward the rear end side from a position at which the neck section has the minimum value,

wherein, when the width of the neck section is W mm, and a thickness of the neck section in the direction orthogonal to the bristle implanting surface is D mm,

the position of the minimum value is set as an origin when the width of the neck section gradually increases toward the rear end side from the position of the minimum value, the position of the minimum value on a front-most end side of the neck section is set as an origin when the width of the neck section is constant toward the rear end side from the position of the minimum value, a value obtained by D/W at a position separated by 10 mm toward the rear end side in parallel with the bristle implanting surface is 0.7 to 2.5,

a difference between the value obtained by D/W at a position of the origin, at which the minimum value of the width is measured, and a value obtained by D/W at a position separated by 20 mm from the position of the origin toward the rear end side

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is equal to or larger than 0.05,

wherein a deflection coefficient M (mm^4) = $W \times D^3$ at the position separated by 10 mm toward the rear end side from the position of the origin, at which the minimum value of the width is measured, is 165 mm^4 to 625 mm^4 ,

wherein a change rate of the deflection coefficient M between the position separated by 10 mm from the position of the origin toward the rear end side and the position separated by 20 mm from the position of the origin toward the rear end side is 1.3 to 1.8, and

wherein a change rate of the deflection coefficient M between the position separated by 20 mm from the position of the origin toward the rear end side and the position separated by 30 mm from the position of the origin toward the rear end side is 1.8 to 3.0.

2. The toothbrush according to claim 1,

wherein a change rate of the deflection coefficient M between the position of the origin and the position separated by 10 mm from the position of the origin toward the rear end side is 1.0 to 1.3.

3. The toothbrush according to claim 1,

wherein a change rate of D/W from the position separated by 10 mm from the position of the origin toward the rear end side to the position separated by 20 mm from the position of the origin toward the rear end side is higher than 1.00 and 1.2 or lower.

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4. The toothbrush according to any one of claims 1,

wherein a change rate of D/W from the position separated by 20 mm from the position of the origin toward the rear end side to the position separated by 30 mm from the position of the origin toward the rear end side is higher than 1.00 and 1.3 or lower.

5. The toothbrush according to any one of claims 1,

wherein the deflection coefficient M at the position separated by 20 mm toward the rear end side from the position of the origin, is 350 mm^4 to 550 mm^4.

6. The toothbrush according to any one of claims 1,

wherein the deflection coefficient M at the position separated by 30 mm toward the rear end side from the position of the origin, is 600 mm^4 to 1500 mm^4.

7. The toothbrush according to any one of claims 1,

wherein a value obtained by D/W at a position separated by 10 mm from the position of the origin toward the rear end side is 0.8 to 1.5.

8. The toothbrush according to any one of claims 1,

wherein the deflection coefficient M at the position separated by 10 mm toward the rear end side from the position of the origin, is 180 mm^4 to 330 mm^4.

9. The toothbrush according to claim 1,

wherein the neck section is formed by a resin material, and

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wherein a flexural modulus of the resin material is 1,000 MPa to 2,200 MPa.

10. The toothbrush according to claim 1,

Wherein a length of the head section is 10 to 33 mm.

11. The toothbrush according to claim 1,

Wherein a length of the neck section is 25 to 70 mm.

12. The toothbrush according to claim 1,

Wherein the head section, the neck section, and the handle section are collectively constitute a handle body,

the handle body is composed of any of polypropylene resin, polyacetal resin, polystyrene resin, polyethylene terephthalate resin, polybutylene terephthalate resin, acrylonitrile butadiene styrene resin, polyarylate resin, polycarbonate resin, or acrylonitrile styrene resin.

13. The toothbrush according to claim 12,

wherein the handle body is formed by a polypropylene resin.

14. The toothbrush according to claim 1,

Wherein the bristle bundle is implanted by flat-bristle implantation.

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