according to claim 2, wherein the structure has a compression modulus in a range of 0.2 to 20 GPa.

4. The method for manufacturing a processed product according to any of claims 1 to 3, wherein an end surface formed by processing the structure has a surface roughness (Rz) in a range of 5 μm or more and 50 μm or less.

5. The method for manufacturing a processed product according to any of claims 1 to 4, wherein

the structure has a volume content of the reinforced fibers in a range of 0.5 vol% or more and 55 vol% or less, a volume content of the resin in a range of 2.5 vol% or more and 85 vol% or less, and a volume content of the voids in a range of 10 vol% or more and 97 vol% or less.

6. The method for manufacturing a processed product

according to any of claims 1 to 5, wherein in the structure, the reinforced fibers are coated with the resin and the resin coating the reinforced fibers has a coating thickness in a range of 1 μm or more and 15 μm or less.

7. A structure comprising reinforced fibers, resin, and voids, the structure satisfying the following (1) and (2):

(1) a volume content of the reinforced fibers is 0.5 vol% or more and 55 vol% or less, and a volume content of the voids is 10 vol% or more and 97 vol% or less; and

(2) a processed end surface of a processed product of the structure has a surface roughness (Rz) in a range of 5 μm or more and 50 μm or less.

8. The structure according to claim 7, wherein the processed end surface only contains the reinforced fibers and the resin.

9. The structure according to claim 7 or 8, wherein the reinforced fibers are coated with the resin and the resin coating the reinforced fibers has a coating thickness in a range of 1 μm or more and 15 μm or less.

10. The structure according to any of claims 7 to 9,

wherein the structure has a specific heat in a range of 0.05 to 0.50 cal/(g·K).

11. The structure according to any of claims 7 to 10, wherein the structure has a compression modulus in a range of 0.2 to 20 GPa.

12. The structure according to any of claims 7 to 11, wherein the voids have a form of an open-cell foam.

13. A processed product comprising a structure that contains reinforced fibers, resin, and voids, the processed product satisfying the following (1) and (2):

(1) the structure having a volume content of the reinforced fibers in a range of 0.5 vol% or more and 55 vol% or less and a volume content of the voids in a range of 10 vol% or more and 97 vol% or less; and

(2) a processed end surface of the processed product has a surface roughness (Rz) in a range of 5 μm or more and 50 μm or less.

14. The processed product according to claim 13, wherein the processed end surface only contains the reinforced fibers and the resin.

15. The processed product according to claim 13 or 14, wherein in the structure, the reinforced fibers are coated with the resin and the resin coating the reinforced fibers has a coating thickness in a range of 1 μm or more and 15 μm or less.

16. The processed product according to any of claims 13 to 15, wherein the structure has a specific heat in a range of 0.05 to 0.50 cal/(g·K).

17. The processed product according to any of claims 13 to 16, wherein the structure has a compression modulus in a range of 0.2 to 20 GPa.

18. The processed product according to any of claims 13 to 17, wherein in the structure, the voids have a form of an open-cell foam.