Claims

1. Tissue product with at least four plies made of tissue paper base sheet or nonwoven, comprising:

   - a first outer ply (4) and a second outer ply (2) and at least two inner plies (17, 18) between the first outer ply (4) and the second outer ply (2), wherein

   - only one of the inner plies (18) is un-embossed;

   - at least one of the outer plies (4) comprises a décor embossing pattern; and

   - at least two adjacent inner plies comprise the un-embossed inner ply (18) and one micro-embossed inner ply (17);

   wherein the outer plies (2, 4) comprise a micro embossing pattern, characterized in that either the density of the micro-embossed protrusions (19) of the micro-embossed inner ply (17) is different to the density of embossed protrusions of the micro-embossing pattern of the outer ply which is adjacent to the micro-embossed inner ply (17) or the micro-embossed protrusions (19) of the micro-embossed inner ply (17) and the embossed protrusions of the adjacent outer ply are not in register with one another.

2. Tissue product according to claim 1, wherein at least one of the embossed plies comprises a double layer or plural layers.

3. Tissue product according to any of the preceding claims, wherein

   - a considerable portion of the outwardly facing main surface of the first outer ply (4) is provided with a soft region (22) surrounded by a décor embossing region (24);

   - the soft region (22) is provided with first micro-embossed protrusions (23); and

   - the décor embossing region (24) comprises first embossed décor protrusions (9); wherein

   - the first micro-embossed protrusions (23) are essentially not adhesively bonded to an inner ply adjacent to the first outer ply (4).

4. Tissue product according to any of the preceding claims, characterized in that the density of the embossed protrusions of the micro-embossing pattern of the inner ply (17) is different to the density of the protrusions of a second micro-embossing pattern of the second outer ply (2), preferably smaller than the density of the protrusions of the second micro-embossing pattern of the second outer ply (2).

5. Tissue product according to claim 3, characterized in that the first micro-embossed protrusions (23) of the first outer ply (4) and/or the embossed protrusions of the micro-embossing pattern of the micro-embossed inner ply (17) and/or the protrusions of a second micro-embossing pattern of the second outer ply are arranged in a density from 30 to 200 dots/cm^2.

6. Tissue product according to claim 4 or 5, wherein a middle ply (17) adjacent to first outer ply (4) is provided with a décor embossing region with further embossed décor protrusions which are in register with the first embossed décor protrusions.

7. Tissue product according to any of the preceding claims, wherein the un-embossed inner ply (18) is adjacent to the first outer ply (4) or second outer ply (2).

8. Tissue product according to any of the preceding claims, wherein at least three inner plies are provided and

   - a first inner ply (17) not adjacent to the first outer ply (4) or second outer ply (2) is provided with a micro-embossing pattern; and

   - a second inner ply (18) between the first inner ply (17) and either the first outer ply (4) or second outer ply (2) is un-embossed.

9. Tissue product according to claim 8, wherein the micro-embossing pattern of the first inner ply (17) extends essentially all over the surface of the first inner ply (17).

10. Tissue product according to claim 3 or 5, wherein less than 0.5% of the first micro-embossed protrusions (23) are adhesively bonded to an inner ply adjacent to the first outer ply (4).

11. Tissue product according to any of the claims 3, 5 or 10, wherein the soft region (22) surrounded by the décor embossing region (24) covers between 25% and 90%, preferably between 30% and 80%, more preferably between

35% and 50%, and most preferably around 45% of the outwardly facing main surface of the first outer ply (4).

12. Tissue product according to any of the preceding claims, the tissue product either comprising a stack of individual sheets or a roll with transversely extending weakening lines to subdivide the web into individual sheets.

13. Tissue product according to claim 12, wherein the embossing is in register with the dimensions of the individual sheets of the tissue product.

14. Tissue product according to any of the preceding claims, characterized in that the application of glue is restricted to an overall surface fraction of less than 12%, preferably less than 2.5% of the tissue product.

15. Tissue product according to any of the claims 3, 5, 10 or 11, characterized in that the soft region (22) has an overall oval shape.

16. Tissue product according to any of the preceding claims, characterized in that the décor embossing region (24) of the first outer ply (4) further comprises second embossed décor protrusions (28) with a smaller height than the height of the first embossed décor protrusions (9).