

CLAIMS

What is claimed is:

1. A hair removal device (10) comprising:
a thermoplastic elastomer (12) disposed on a portion of the hair removal device (10); and
one or more projections (32) extending from the thermoplastic elastomer (12),
wherein the thermoplastic elastomer (12) is polar and hydrophilic.
- 5 2. The hair removal device of claim 1, wherein the thermoplastic elastomer defines one or more pores to facilitate removal of water.
3. The hair removal device of claim 1, wherein the one or more projections comprises at least two projections and at least one groove can be formed between the at least two projections.
4. The hair removal device of claim 1, wherein the one or more projections are integrally
10 formed with the thermoplastic elastomer.
5. The hair removal of claim 4, wherein the one or more projections are integrally formed with the thermoplastic elastomer by injection molding.
6. The hair removal device of claim 5, wherein the one or more projections are integrally formed with the thermoplastic elastomer by two step injection molding.
- 15 7. The hair removal device of claim 1, wherein the portion of the hair removal device comprises at least one of a grip portion of the hair removal device and a fin on a guard of the hair removal device.
8. A hair removal device comprising:
a thermoplastic elastomer disposed on at least a portion of the hair removal device, the
20 thermoplastic elastomer defining one or more pores to facilitate removal of water when wet,
wherein the thermoplastic elastomer is polar and hydrophilic.

9. The hair removal device of claim 8 further comprising one or more projections extending from the thermoplastic elastomer.
10. The hair removal device of claim 9, wherein the one or more projections is at least two projections.
- 5 11. The hair removal device of claim 10 further comprising at least one groove formed between the at least two projections.
12. The hair removal device of claim 9, wherein the one or more projections are integrally formed with the thermoplastic elastomer.
13. The hair removal device of claim 11, wherein the one or more projections are integrally
10 formed with the thermoplastic elastomer by injection molding.
14. The hair removal device of claim 12, wherein the one or more projections are integrally formed with the thermoplastic elastomer by two step injection molding.
15. The hair removal device of claim 8, wherein the portion of the hair removal device comprises at least one of a grip portion of the hair removal device and a fin on a guard of the hair
15 removal device.

CLAIMS

1. A hair removal device (10) comprising:
a thermoplastic elastomer (12) disposed on a portion of the hair removal device (10); and
one or more projections (32) internally formed with the thermoplastic elastomer (12), wherein the thermoplastic elastomer (12) is polar and hydrophilic, and has a coefficient of friction from 2.0 to 3.5 when wet with water and a Shore A hardness from 35 to 50.
2. The hair removal device of claim 1, wherein the thermoplastic elastomer defines one or more pores to facilitate removal of water.
3. The hair removal device of claim 1, wherein the one or more projections comprises at least two projections and at least one groove can be formed between the at least two projections.
4. The hair removal of claim 1, wherein the one or more projections are integrally formed with the thermoplastic elastomer by injection molding.
5. The hair removal device of claim 4, wherein the one or more projections are integrally formed with the thermoplastic elastomer by two step injection molding.
6. The hair removal device of claim 1, wherein the portion of the hair removal device comprises at least one of a grip portion of the hair removal device and a fin on a guard of the hair removal device.