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(54) ANTI-PERMEABILITY DRY AND WET MULTI-FUNCTIONAL POWDER PUFF

(57) The invention discloses a kind of anti-permeability dry and wet multi-functional powder puff. This powder puff includes the main body that is made from closed cell foaming material. The surface of the powder puff forms uniform and dense pores that reduce the permeability characteristic of liquid. The cells of the puff form very tight and seamless links that are non-absorbent and impermeable. The invention solves the problem of existing technology successfully. The powder puff will not absorb cosmetics, such as BB cream, dry powder, toner, eye cream, pre-make-up,makeup base,essence,face cream, emulsion and other cosmetics when using. It also has other advantages such as good flexibility which can make sure that it fits the skin perfectly, no peculiar smell and easy to put on the makeup.The puff can be used continuously after the cosmetic remained on the surface cleaned by wet towel or clean water.

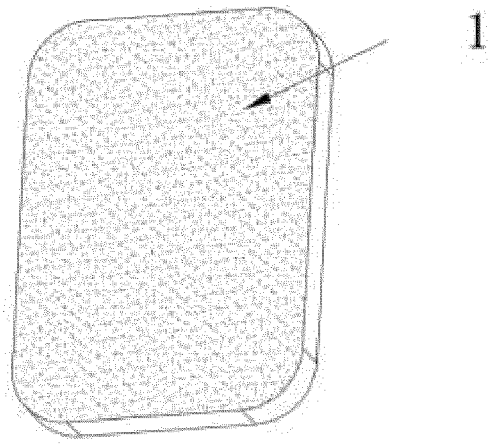

Fig. 1

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Description

Field of technology

[0001] This invention relates to the field of powder puff, especially to an anti-permeability dry and wet multi-functional powder puff.

Background technology

[0002] Existing powder puff can only be used when applying BB cream and dry powder and will absorb large amounts of such cosmetics. When putting on makeup, the existing powder puff cannot be used for toner, eye cream, pre-makeup,makeup base, essence, cream, lotion and other cosmetics, because the puff will absorb a lot of cosmetics and dirty the powder puff and cause the loss of function.

Content of invention

[0003] Technical problems to be solved by the invention is to provide an anti-permeability dry and wet multi-functional powder puff that will not absorb the cosmetics, has good flexibility, fits the skin perfectly, has no peculiar smell and can apply makeup evenly, which can also be used continuously after the cosmetic remained on the surface cleaned by wet towel or clean water.

[0004] The problem has been solved by a power puff including a main body that is made from closed cell foaming material. The surface of the powder puff forms uniform and dense pores that reduce the trafficability characteristic of liquid.

[0005] Therefore, object of the present invention is an anti-permeability dry and wet multi-functional powder puff characterized by a main body made from a closed-hole foaming material which forms uniform and dense pores that reduce the permeability characteristic of liquid.

[0006] In a preferred embodiment said pores have relative density 0.18 ± 0.03 g/cm^3, 4°-6° Shore C Hardness and 0.015-0.02 mm diameter.

[0007] Preferably, the cells of the puff of the present invention form very tight and seamless links that are non-absorbent.

[0008] Preferably the material of the main body of the powder puff of the present invention is styrene rubber, optionally in admixture with an auxiliary material, such as styrene butadiene rubber, natural rubber, oil.

[0009] As a non-limitative example, the main body of the powder puff of the present invention is made from a mixture of 90% of styrene butadiene rubber (SBR) and 10% of the auxiliary material. After closed cell foaming, the volume is no longer changed after foaming into a certain degree and becomes a completely solid forming foam. Then sanding the shape with a grinding after heating the drying track while pumping air and using cooling functions at low temperature to get rid of the odor.

[0010] The anti-permeability dry and wet multi-functional powder puff of the present invention solves the problem of existing technology and has several advantages. In fact, the powder puff will not absorb cosmetics, such as BB cream, dry powder, toner, eye cream, make up primer, isolation cream, essence liquid, face cream, emulsion and other cosmetics when using. Also, good flexibility, skin comfort, no odor and uniform makeup are its advantages. The puff can be used continuously after the cosmetic remained on the surface cleaned by wet towel or clean water.

Brief description of the drawings

[0011]

FIG. 1 is the schematic diagram of the embodiment structure of the invention.
FIG. 2 is the internal structure diagram of the embodiment of the invention.

Detailed description of the invention

[0012] In order to make the purpose, technical scheme and advantages of the invention more clear, the invention will be further described in detail together with the attached figures.

[0013] The power puff of the invention includes the main body that is made from closed cell foaming material. The surface of the powder puff forms uniform and dense pores that reduce the trafficability characteristic of liquid. The cells of the puff form very tight and seamless links that are non-absorbent. The main body of the powder puff is made from a mixture of 90% of the main ingredient styrene butadiene rubber (SBR) and 10% of the auxiliary material. After closed cell foaming, the volume is no longer changed after foaming into a certain degree and becomes a completely solid forming foam. Then sanding the shape with a grinding after heating the drying track while pumping air and using cooling functions at low temperature to get rid of the odor. The upgrade of the new material and process is represented in figure 1 and figure 2, which not only keeps the characteristic of uniform distribution of pores and high density, but also makes the hole wall (1) lower liquid permeability and greatly reduce the loss of wet powder. At the same time, the large-density pores on the surface can effectively catch dry powder. It makes the powder more uniform, and the molecules of the new material are smaller, resulting in greater density per unit area. It has a strong blocking effect (water resistance).

[0014] The invention solves the problem of existing technology successfully. The powder puff will not absorb cosmetics, such as BB cream, dry powder, toner, eye cream, make up primer, isolation cream, essence liquid, face cream, emulsion and other cosmetics when using. Also, good flexibility, skin comfort, no odor and uniform makeup are its advantages. The puff can be used continuously after the cosmetic remained on the surface

cleaned by wet towel or clean water.

[0015] The above disclosure is only one of the better embodiments of the invention, which of course cannot be used to define the scope of the invention's rights. Therefore, the same changes made in accordance with the invention's claims are still within the scope of the invention.

Claims

1. An anti-permeability dry and wet multi-functional powder puff **characterized by** a main body made from closed-hole foaming material which can form uniform and dense pores that reduce the permeability characteristic of liquid.

2. The anti-permeability dry and wet multi-functional powder puff according to claim 1 wherein the closed-hole foaming material has cells which form very tight and seamless links that are non-absorbent and impermeable.

3. The anti-permeability dry and wet multi-functional powder puff according to claim 2 wherein the material is styrene-butadiene rubber.

4. The anti-permeability dry and wet multi-functional powder puff according to claim 2 or 3 wherein the material is a mixture containing 90% styrene butadiene rubber (SBR) and 10% other auxiliary materials.

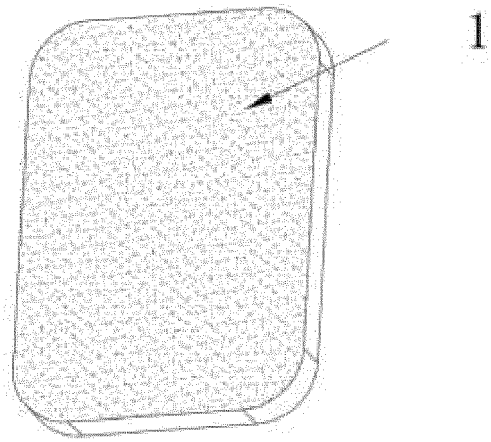

Fig. 1

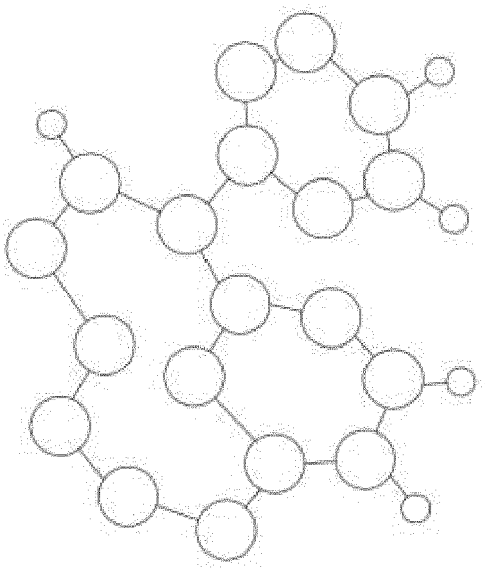

Fig. 2

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EUROPEAN SEARCH REPORT

Application Number
EP 18 21 5050

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 6 528 154 B1 (YAMATO YUICHI [JP]) 4 March 2003 (2003-03-04) * column 1, lines 18-29; figures * * column 2, lines 1-56 *	1-4	INV. A45D33/34
X	WO 2017/108587 A1 (OREAL [FR]) 29 June 2017 (2017-06-29) * page 5, lines 12-31; figures * * page 6, lines 12-19 *	1-4	
X	US 2002/071708 A1 (FONTANET OSVALDO [US] ET AL) 13 June 2002 (2002-06-13) * paragraphs [0016], [0029]; figures *	1,2	

TECHNICAL FIELDS SEARCHED (IPC)

A45D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	24 June 2019	Dinescu, Daniela

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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A : technological background
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 18 21 5050

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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24-06-2019

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82