## CERTIFICATE

# IN VITRO SKIN IRRITATION - ISO 10993-1, ISO/TC 194 WG 8 IN REEERENCE TO ISO 10993-10 \& ISO 10993-12 

Test on medical devices using reconstructed human epidermis (RhE) EpiDerm ${ }^{\text {TM }}$
manufacturer / COMPANY
DyeMansion GmbH
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DATE OF ISSUE
December 28, 2020

Hereby we declare that all the skin irritation tests have been made by an accredited test laboratory. The associated certificates or test results can be provided on request. The obtained results are in accordance with ISO 10993-1, ISO/TC 194 WG 8 in reference to ISO 10993-10 \& ISO 10993-12.

Information on tested materials:
The tested SLS (Selective Laser Sintering) parts were treated as follows:
$\checkmark$ Cleaning with the DyeMansion Powershot C
$\checkmark$ VaporFuse Surfacing with the DyeMansion Powerfuse S
$\checkmark$ DeepDye Coloring with the DyeMansion DM60
For the skin irritation tests either the selection of base dyes or the exact formulation was used. The test procedure for each material and color can be found in the table below.

The used parts dyed with the following mixtures have not shown any skin irritation potential:

| MATERIAL CLASS | MATERIAL NAME | SUPPLIER | COLOR | TEST PROCEDURE |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Polyamide 12 (PA 12) | EOS PA 2200 | EOS GmbH | DM Black 01 | Exact formulation |  |
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