



**Hagedorn Plastirol  
Deutschland GmbH  
Report No. DV 1712-980**

# Cleanroom<sup>®</sup> Suitable Materials

**L-PS ESD 3.0**  
Particle (vs. stainless steel ball  
1.3541 / 1.4034): ISO 4

## FLOORING & COATING

### Particle Emission

### Qualification Certificate

DUPLICATE

We hereby certify that the material stated above, provided by

**Hagedorn Plastirol Deutschland GmbH**  
Lingen, Germany

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number DV 1712-980.

The level of particulate contamination emitted during application of tribological stress on the material pairing specified lies within the permissible values of the corresponding Air Cleanliness Class in accordance with ISO 14644-1:

Material pairing and test		Suitable for Air Cleanliness Class (ISO 14644-1)
L-PS ESD 3.0 (color   Farbe: black   Schwarz)	vs. stainless steel ball 1.3541 / 1.4034	ISO Class: 4
Ball-on-disc test Normal force 300N		

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under [www.tested-device.com](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

DV 1712-980  
Report No. first document  
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Report No. current document

Stuttgart, February 2, 2018  
Place, date of first document issued  
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Place, current date

on behalf of   
Dr.-Ing. Udo Gommel, Project manager Fraunhofer IPA