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Testing and sampling coated plastic parts in the accredited laboratory according to DIN EN ISO/IEC 17025:2018

testlab@ipa.fraunhofer.de Phone +49 711 970-1774

With a well-established team, digital methods, superior technical expertise and a test lab equipped with the latest instruments, we are in an ideal position to respond promptly and flexibly to your requirements. Most of our test procedures are accredited according to DIN EN ISO/IEC 17025:2018.

Get in touch with us!

## **Services**

- Accredited test procedures in the field of coating technology (see Table)
- Inclusion of further normative test procedures in the accredited range to suit customer requirements
- Sampling according to many automotive industry standards, such as:
  - Mercedes-Benz specification, e.g. DBL 5425, DBL 5428, DBL 7384, DBL 7402
  - VW specification, e.g. TL 226, TL 211
  - BMW specification, e.g. GS 94007
- Individual test procedures according to customer requirements.

## Contact partner

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Die Deutsche Aktredni

Testing and sampling coated plastic parts

Fraunhofer-Gesellschaft zur Forde Fraunhoter.Gesellschaft zur Forderin Hansastraße 27 c. 80686 München

fursein Prüffaboratorium

Fraunhofer Institut für Produktionste Faumorer Institut für Produktionste Abreiune Beschichtungswisterne

Accredited Laboratory according to DIN EN ISO/IEC 17025:2018



## Range of services in the accredited area of the Department of Coating Systems and Painting Technology

Corrosion and weather	ing tests
DIN EN ISO 105-B06	Textiles – Tests for colour fastness – Part B06: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test
DIN EN ISO 6270-1	Paints and varnishes – Determination of resistance to humidity – Part 1: Condensation (single-sided exposure)
DIN EN ISO 6270-2	Paints and varnishes – Determination of resistance to humidity – Part 2: Condensation (in-cabinet exposure with heated water reservoir)
DIN EN ISO 9227	Corrosion tests in artificial atmospheres – salt spray tests (alternative: with neutral sodium chloride solution (NSS method))
DIN EN ISO 11997-1	Paints and varnishes – Determination of resistance to cyclic corrosion conditions – Part 1: Wet (salt fog)/dry/humid, cycle B
DIN EN ISO 16474-2	Paints and varnishes – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps, method A
Layer thickness measur	rements
DIN EN ISO 2178	Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method
DIN EN ISO 2360	Non-conductive coatings on non-magnetic electrically conductive base metals – Measurement of coating thickness – Amplitude-sensitive eddy-current method
DIN EN ISO 2808	Paints and varnishes – Determination of film thickness
Resistance tests	
DIN EN ISO 105-X12	Textiles – Tests for colour fastness – Part X12: Colour fastness to rubbing
DIN EN ISO 2812-3	Paints and varnishes – Determination of resistance to liquids – Part 3: Method using an absorbent medium
DIN EN ISO 2812-4	Paints and varnishes – Determination of resistance to liquids – Part 4: Spotting methods
DIN EN ISO 20566	Paints and varnishes – Determination of the scratch resistance of a coating system using a laboratory-scale car-wash
DIN EN ISO 21546	Paints and varnishes – Determination of the resistance to rubbing using a linear abrasion tester (crockmeter)

Physical tests		
DIN 53236	Colouring materials – Conditions of measurement and evaluation for the determination of colour differences for paint coatings, similar coatings and plastics	
DIN EN 60068-2-70	Environmental testing – Part 2: Tests – Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands	
DIN EN ISO 2409	Paints and varnishes – Cross-cut test	
DIN EN ISO 2813	Paints and varnishes – Determination of gloss value at 20°, 60° and 85°	
DIN EN ISO 3668	Paints and varnishes – Visual comparison of colour of paints	
DIN EN ISO 16925	Paints and varnishes – Determination of the resistance of coatings to pressure water-jetting	
DIN EN ISO 20567-1	Paints and varnishes – Determination of stone-chip resistance of coatings – Part 1: Multi-impact testing	
DIN EN ISO 22557	Paints and varnishes – Scratch test using a spring-loaded pen	
VDMA Specification 24364	Testing for paint wetting impairment substances (LABS-conformity)	

Determination of fogging behavior, burn behavior and odor behavior		
DIN 75201	Determination of the fogging characteristics of trim materials in the interior of automobiles	
DIN 75200	Determination of burning behaviour of interior materials in motor vehicles	
VDA 270	Determination of the odour characteristics of trim materials in motor vehicles	
Selected analytical tests		
internal Standard Operating Procedure	Identification of the binder type by IR Spectroscopy	
internal Standard Operating Procedure	Determination of glass transition temperature and melting point by Differential Scanning Calorimetry (DSC)	