Proposal for IGPG: Wiper tests – On-road tests (Subgroup 1)

Current on-road tests: Test conditions

Windshield: PC with AS4700

- BMW 3er
- safeguarding test car
- duration: approx. 2 month
- mileage: in analysis
- wiper cycles: in analysis
- status: windshield removed from car investigations in progress

- VW Golf 6
- test car (development pool-car)
- duration: approx. 3 month
- mileage: approx. 10000 km
- wiper cycles: approx. 52000
- status: windshield removed from car investigations in progress

Data base for on-road tests

Windshield: laminated safety glass

- Daimler, different cars
- safeguarding test car
- duration: different
- mileage: approx. 100000 km
- wiper cycles: not known
- results: qualitative, no measurements
deterioration of the windshield depends on the kind of track
Proposal for IGPG: Wiper tests – On-road tests (Subgroup 1)

Activities for on-road tests: Working plan

Definition of the test methods

• Haze measurements
• additional test for the whole part: f.e. backlighting test
• additional test for the grade of deterioration

Definition of the sample parts

• car / model
• material of plastic glazsing
• thickness of plastic glazing
• different coating systems

Constraint:
sample parts for on-road tests are free for the OEMs

Definition and procedure of the on-road test

• kind of test car
• kind of track
• duration
• mileage
• wiper cycles
Proposal for IGPG: Wiper tests – On-road tests (Subgroup 1)

Activities for on-road tests: Working plan

Recording parameters for on-road tests

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number of test: 2 sample parts for one coating system

Dr. A. Matthai, I/EK-P3; 21.08.2012
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Activities for on-road tests: Working plan

Generation of a data base for comparison of plastic glazing with laminated glass
- Investigation of windshields from serial cars (laminated glass)
- Investigation of windshields from police cars (plastic glazing)

Analysis of the sample parts from on-road tests

Correlation of test results with wiper lab tests
- Definition of tests and test conditions
- Definition of criteria for windshields of plastic glazing

Summary of the results

Proposal to the UNECE, GRSG, IGPG
Proposal for IGPG: Wiper tests – On-road tests (Subgroup 1)

Activities for on-road tests: Timeline

- **Decision to start the activities**: 10/12
- **Preparation of test cars; start on-road tests at OEMs**: 02/13
- **First results of subgroup 1 and subgroup 2**: 06/13
- **Analysis of the sample parts**: 12/13
- **Correlation of results to wiper lab tests**: 02/14
- **Proposal to UNECE, GRSG, IGPG**: 04/14

- **Definition of sample parts and test cars; Input also from subgroup 2**
- **Test of plastic windscreens in cars**
- **Tests and investigation of glass windscreens for comparison with plastic glazing**
- **Definition of test conditions, test methods and approvals; Input also from subgroup 2**
- **Analysis of sample parts with defined test methods**
- **Correlation with wiper lab tests**
- **Summary of the results**