

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

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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 glazing
- 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

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Activities for on-road tests: Working plan

Recording parameters for on-road tests

test	number	1	2	3	4
	model				
	kind of test				
track	urban road				
	country road				
	autobahn				
duration	start				
	end				
	total time				
	mileage				
load	wiper cycles				
	wash cycles				
	car wash				
	ice scratch				
	special: dirt				
	special: sand				

number of test: 2 sample parts for one coating system

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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

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Activities for on-road tests: Timeline

