

Status of PSG IWG

(Mutual Resolution No.[4])

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➤ Background of MR No.[4]

- **Panoramic Sunroof Glazing(PSG) is widely used in global vehicle production**
- **Ceramic layer, CPA(Ceramic Printed Area), is necessary on the toughened safety glass panes of PSG for the technical requirements and design purposes**
- **However, CPA reduces mechanical strength of toughened safety glass panes in general**
- **This indicates a higher risk of complete toughened safety glass pane breakage**
- **Informal Working Group(IWG) had established with adoption by the AC.3 on march 2015**

➤ **Background of MR No.[4]**

- **The aim was to develop an amendment UN GTR No.6(Safety Glazing) and UN R No.43**
- **Long-term studies are required for testing requirement amendment UN GTR No.6 and UN R No.43, would be take several years**
- **Industry has been developing new technologies for PSG, such as an enamel material instead of ceramic, it would have a possibility to reduce risk of glass breakage, but not available in the near future**
- **Based on this situation, all members of PSG IWG agreed recommendation with this Mutual Resolution is good intermediate solution until new technologies are possible to use**

➤ Major PSG IWG activities

- The activities of PSG IWG since 2015 can be categorized into 3 phases

1st phase(2015, 2016)

- Collect, analyze and discuss existing data from global markets to understand number of glass breakages and risk of injuries

2nd phase(2017, 2018)

- 1st amendment of UN GTR No.6 had submitted and approved on 112th GRSG session on April of 2017
- Gather further data and validate how much research is needed to be able to make amendments UN GTR No.6, UN R No.43

3rd phase(2018, 2019)

- Research will take too long so that IWG concluded to have a Mutual Resolution is a good immediate solution
- IWG focused to define and agree on CPA limitation values
- Among the 10 times of Webex meeting on 2019, IWG prepared Mutual Resolution No.4