

Fire safety in railway vehicle manufacture

NEW

MAYWOflamm® plus meets new railway vehicle standard EN 45545-2:2013

With the new material **MAYWOflamm® plus** Röchling Maywo is one of the first manufacturers to supply extruded sheets made of flame-retardant polycarbonate/acrylonitrile butadiene styrene (PC/ABS blend). The sheets meet the

- requirement R1 in
- hazard level HL2
- in the new European railway vehicle standard **EN 45545-2:2013**.

Increased fire safety requirements

The standard, which entered into force in August 2013, **has raised the bar much higher** in terms of **fire safety requirements** in railway vehicles. In March 2016 it will entirely supersede the national norms, such as the German DIN 5510 standard.



Interior use in railway vehicles: **MAYWOflamm® plus** meets the new railway vehicle standard **EN 45545-2:2013**

Interior use

Requirement R1 is one of the most difficult to meet in respect of the test methods. It relates to components which are used inside railway vehicles. Examples:

- Interior fittings: side panels, ceiling panels, partitions
- Luggage racks
- Interior air ducts

Areas of application

MAYWOflamm® plus meets requirement R1 in **hazard level HL2** and is therefore suitable for use as follows:

- for all surface vehicles
- for the majority of vehicles designed to run on underground track sections and allowing for side evacuation

Properties

Sheets made of **MAYWOflamm® plus** are made specially for the **vacuum drawing industry** and boast the following properties:

- Fulfilment of R1/HL2 in EN 45545-2:2013
- Absence of halogens
- Excellent thermal and mechanical characteristics
- Very high resistance to corrosion and chemicals

Production range: **MAYWOflamm® plus** sheets can be supplied in

- thicknesses of 2 ... 5 mm
- widths of up to 2500 mm
- lengths of 400 ... 3000 mm
- Other dimensions on request