

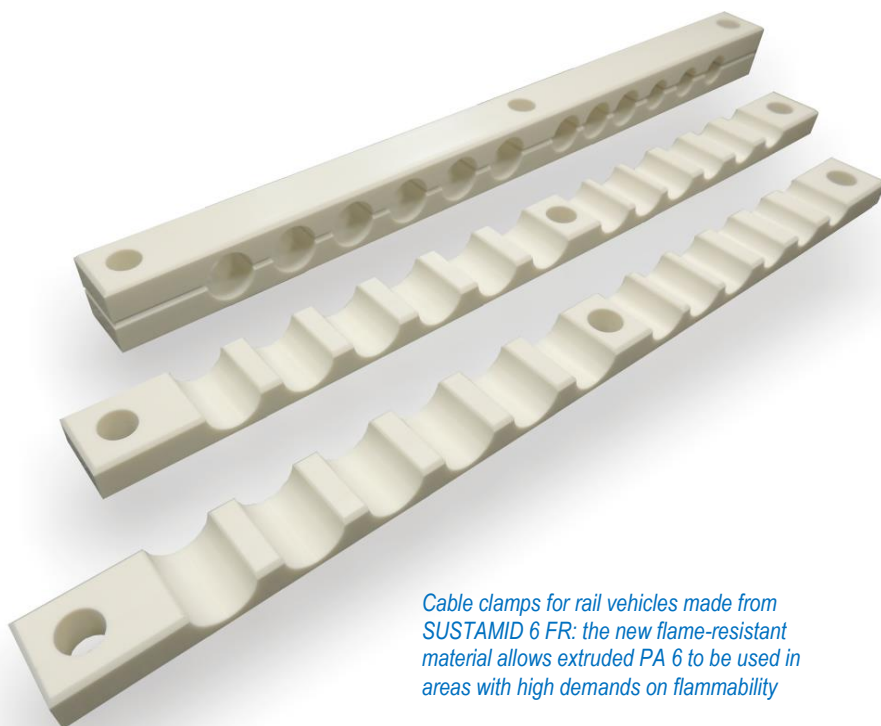
Order
now!

The new material with built-in fire protection SUSTAMID 6 FR - flame-resistant extruded polyamide 6

In areas making high demands on fire behaviour – such as transport and the electrical industry – manufacturers of plant and machinery often had to get along without the unbeatable PA 6 as a machine construction element and so missed out on its outstanding mechanical properties as well.

New: flame-resistant PA 6

In SUSTAMID 6 FR, Röchling has now developed an extruded **flame-retardant polyamide 6**. The new material boasts a **very high LOI** (Limiting Oxygen Index) of 40% and is **halogen-free**. The fire behaviour was classified at **V0** according to **UL 94**. In addition, the low density of SUSTAMID 6 FR (1,17 g/cm³) provides significant weight and construction benefits in comparison to conventional materials, like steel (7,85 g/cm³).



Cable clamps for rail vehicles made from SUSTAMID 6 FR: the new flame-resistant material allows extruded PA 6 to be used in areas with high demands on flammability

New fields of application

The particular combination of properties makes the new SUSTAMID 6 FR the ideal material for applications in which very **high demands are placed on flammability, mechanical properties and weight**.

Examples:

- Rail vehicle construction
- Aviation industry
- Shipbuilding
- Mining
- Electrical industry

Properties

- Very high oxygen index of 40% (LOI - Limiting Oxygen Index)
- Flame-resistant (V0 according to UL 94)
- Halogen-free
- Low density (1,17 g/cm³)
- High strength and rigidity
- High dimensional stability
- Good slide and wear behaviour
- Good machinability

Production range

You can now order the new material SUSTAMID 6 FR as **rods and sheets** in natural and black in the following dimensions:

Rods		
Diameter	Length	
10 - 100 mm	3,000 mm	

Sheets		
Thickness	Width	Length
8 - 60 mm	620 mm	3,000 mm

Many dimensions are available straight from stock. Other dimensions can be produced on request. Just ask us!

Contact

We would be happy to tell you more about the properties and possible uses of SUSTAMID 6 FR.

Write to us now:

- flash@sustaplast.de

SUSTAMID 6 FR meets a range of requirements such as the new European rail vehicle standard, **DIN EN 45545-2:2013**. Please contact us for further details and certificates.