RÖCHLING
High Performance Plastics

PRESS RELEASE

As the first manufacturer, Röchling offers semi-finished products made of flame-retardant polyamide 6

With SUSTAMID 6 FR, large-size machined components and short runs are now possible

Lahnstein – With SUSTAMID 6 FR, Röchling Sustaplast KG, Lahnstein is now offering – as the very first manufacturer – semi-finished extruded products made of flame-retardant polyamide 6 (PA 6). This newly developed material, which meets the relevant requirements of the new European Rail Vehicle Standard DIN EN 45545-2:2013, facilitates production of large-sized machined components and component parts in small piece numbers.

Machined parts made of flame-retardant polyamide 6 could hitherto only be manufactured in injection moulding due to technical limitations. This meant that large dimensions and small piece numbers could not be economically realised due to the high tool costs.

Large dimensions and small quantities

With the development of SUSTAMID 6 FR, Röchling has found a way to extrude flame-retardant polyamide 6 and – as the very first manufacturer – offers round rods

with diameters from 10 to 100 mm and 3,000 mm length. Flat bars are also available with the dimensions 620 mm x 3,000 mm, 8 to 60 mm strength. Dimensions even exceeding that can also be produced on demand.

Very high oxygen index – 40 percent

With 40 percent, SUSTAMID 6 FR stands out through a very high oxygen index (LOI – Limiting Oxygen Index), and is phosphorus and halogen-free. Fire behaviour is classified in accordance with UL 94 with V0. Compared to conventional materials, such as steel (7.85 g/cm³), the low density of SUSTAMID 6 FR (1.17 g/cm³) offers unequivocal benefits regarding weight and thus construction. At the same time, the material possesses a high degree of stiffness, tensile strength as well as good sliding and wear properties with simultaneously outstanding corrosion and chemical resistance.

Numerous fields of application

With SUSTAMID 6 FR, Röchling targets in particular applications in fields, for which there are very high requirements made on the fire behaviour of the material implemented there. These involve applications especially in passenger transportation, such as rail-vehicle construction, the aerospace industry, or shipbuilding. Here, SUSTAMID 6 FR proves its unequivocal weight advantage. Yet SUSTAMID 6 FR´s profile of characteristics also offers new potential and possibilities for application in mining, the electrical industry or in public buildings.

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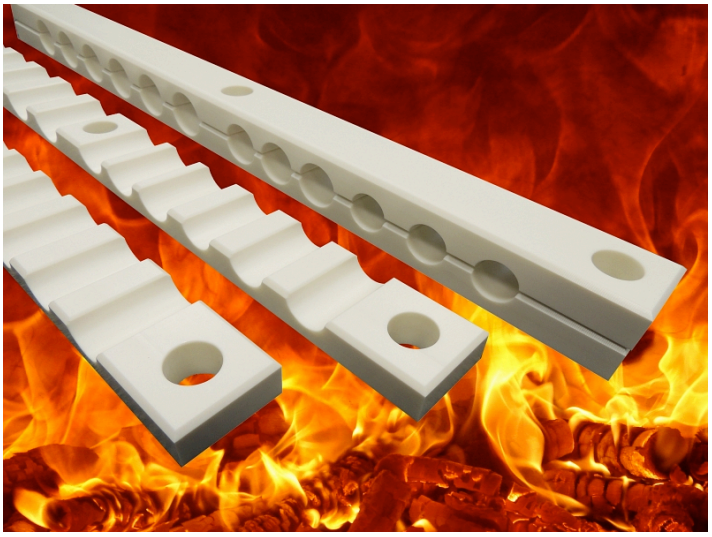
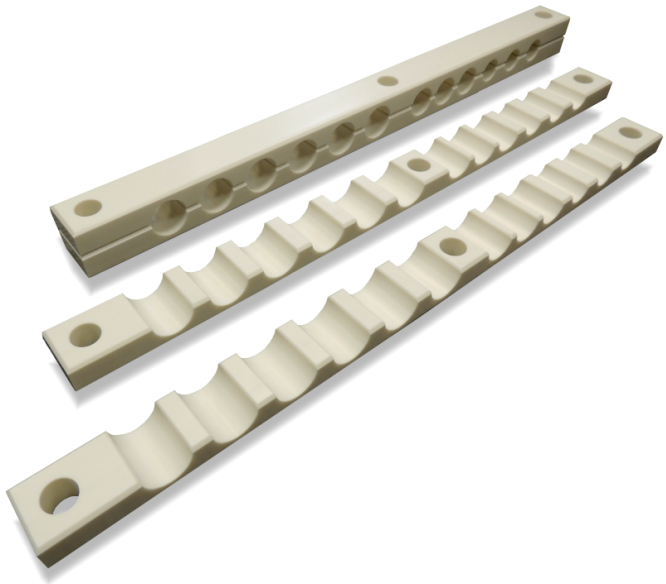
New European rail-vehicle standard fulfilled

SUSTAMID 6 FR fulfils the relevant requirements of the European Rail Vehicle Standard DIN EN 45545-2:2013 that came into force in August 2013. This new standard makes tighter demands on fire protection, and supersedes the hitherto national rail vehicle standards, such as, by way of example, DIN 5510 in Germany.



SUSTAMID 6 FR fulfils the relevant requirements of the European Rail Vehicle Standard DIN EN 45545-2:2013.



Cable claps made of SUSTAMID 6 FR 850 mm long: This new material facilitates the production of large-size

machined components and components in small piece numbers made of flame-retardant polyamide 6

SUSTAMID 6 FR (PA 6) product range:

Round rods:

Diameters: 10 to 100 mm, length: 3,000 mm

Flat rods

Dimensions: 620 x 3,000 x 8…60 mm

Other dimensions on request.

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Company Profile

The globally operating Röchling Group stands for competence in plastics with more than 7,500 on the payroll at 60 locations in 20 countries. With their two divisions High-Performance Plastics and Automotive Plastics, the company focusses on processing high-grade plastics to fabricate semi-finished products, parts and systems for a host of industrial applications.

Röchling stands for innovative products and cutting-edge process technology in processing technical plastics.

The High-Performance Plastics division - to which Röchling Engineering Plastics KG, Haren/Germany and Röchling Sustaplast KG, Lahnstein/Germany belong - has a product spectrum ranging from semi-finished products, such as sheets, rods, tubes and plates, profiles and casted parts right up to machined and injection molded finished components.

The Automotive Plastics division supplies automotive manufacturers and system suppliers throughout the world with technologically sophisticated plastic applications used to solve the ongoing challenges of the automotive industry: Cutting down on costs, weight, consumption and emissions.

www.roechling.com

Executive Board

Röchling Engineering Plastics KG
Ludger Bartels (CEO)
Dr. Joachim Brunswicker (CFO)
Dr. Stephan Glander (COO)
Röchlingstr. 1, D-49733 Haren/Germany
Tel. +49 5934 701-0, Fax: -299
info@roechling-plastics.com
www.roechling.com

For questions and comments please contact
Hartwig Bleker, Head of Advertising & Communication
Röchling Engineering Plastics KG,
Tel. +49 5934 701-322, Fax -509,
hartwig.bleker@roechling-plastics.com

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