

Polyamide with built-in fire protection

Sustamid® 6 FR – An economic solution for small up to medium quantities

- Extruded semi-finished products made of flame-retardant polyamide 6 (PA 6)
- Available as sheets, rods and tubes
- Enables the production of large-scale machined parts and components in small quantities

Properties

- Very high oxygen index of 40 % (LOI – Limiting Oxygen Index)
- Flame resistant (V0 according to UL 94)
- Halogen free
- Good dimensional stability and high strength and rigidity
- Good slide and wear behaviour
- Low density (1.17 g/cm³)

Markets

Sustamid® 6 FR is the ideal material for applications in which very high demands are placed on flammability, mechanical properties and weight.

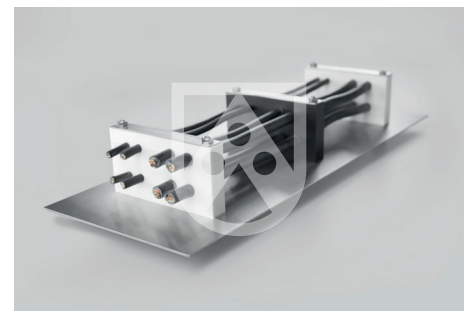
- Rail vehicle construction
- Aviation industry
- Ship building
- Mining
- Oil & Gas
- Healthcare
- Vehicle construction

Approvals

Standard	Country	Fulfilled Testing
EN 45545	Europe	R22, R23, R24, R25, R26
BS 6859	UK	Table 7 / Table 8
DIN 5510	DE	S4 / SR2 / ST2
BSS 7239	USA/SEA	Toxic gas generation
NFPA130 – ASTM E162	USA/SEA	Surface flammability
NFPA130 – ASTM E662	USA/SEA	Smoke generation
UL 94	Worldwide	V0
FAR 25.853	Worldwide (Airbus)	Finished
Japan Railway Ignition Test	JP	(3) flame retardant



Sustamid® 6 FR: Enables the production of machined parts and components in small quantities – for example brackets, bushes, enclosures or manifolds and housings



Cable clamp made of Sustamid® 6 FR: the flame-resistant material allows extruded PA 6 to be used in areas with high demands on flammability

Stock and delivery programme

Sheets	Color	Format (mm)	Thickness (mm)
	Natural	620 x 3,000	6 / 8 / 10 / 12 / 16 / 20 / 25 / 30 / 40 / 45 / 50 / 60 / 90
	Black	620 x 3,000	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 60
	New Black	2,000 x 1,000	3 / 5 / 12
Rods	Color	Length (mm)	Diameter (mm)
	Natural	3,000	12 / 16 / 20 / 30 / 40 / 50 / 60 / 70 / 100 (80 on request)
	Black	3,000	30 / 70 / 100
Tubes	Color	Length (mm)	Outer & inner Diameter (mm)
	New Natural	3,000	10 / 5; 12 / 7; 13 / 8; 14 / 9; 15 / 10; 16 / 11; 18 / 13; 20 / 15; 25 / 20; 30 / 25; 32 / 27; 36 / 31 (on request)

Numbers in bold = ex stock, short delivery time!

Other delivery forms and sizes are possible on request

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