

Polyamide with built-in fire protection

Sustamid® 6 FR - flame resistant extruded polyamide 6

Properties

- Very high oxygen index of 40% (LOI - Limiting Oxygen Index)
- Flame resistant (V0 according to UL 94)
- Halogen free
- Good dimensional stability
- High strength and rigidity
- Good slide and wear behaviour
- Good machinability
- Low density (1.17g/cm³) providing significant weight benefits in comparison to conventional materials like steel (7.85g/cm³).
- Very good noise and vibration absorption



Cable clamps for rail vehicles made from Sustamid® 6 FR

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
- Offshore

Machined parts from Sustamid® 6 FR

- Simple turned parts
- Complex 5 axis machined parts
- Milled components

Typical applications

- Cable clamps
- Brackets
- Bushes
- Enclosures
- Manifolds
- Electrical parts
 - connectors
 - bobbins
 - switches

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
NEW BSS 7239	USA/SEA	Toxic gas generation
NEW NFPA130 - ASTM E162	USA/SEA	Surface flammability
NEW NFPA130 - ASTM E662	USA/SEA	Smoke generation
UL 94	Worldwide	V0
NEW FAR 25.853	Worldwide (Airbus)	Finished
NEW Japan Railway Ignition Test	JP	(3) flame retardant

* Valid until 03/2016

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