

Nylatron® FST – Flame, Smoke, Toxicity Retardant for Aircraft Interior Applications



The first extruded nylon that meets requirements as specified in FAR 25.853 (Federal Aviation Regulation – FAR)

For interior applications in aircraft materials must meet various requirements to be recognized. They must be lightweight, meet engineering demands, wear and design requirements, and in addition have fire-safety characteristics that meet aviation regulations and standards like FAR 25.853.

Mitsubishi Chemical Advanced Materials Nylatron® FST is a specifically designed polymer solution for aircraft interior applications. Its unique features make it the first engineering plastic product of its kind available as semi-finished shapes (rods and sheets). Fire, smoke and toxicity (FST) retardant capabilities enable Nylatron® FST to withstand extreme temperatures up to 175 °C. The material is particularly suitable for any kind of application where metal parts (e. g. brackets,



seal bushings, slide rails and duct seals) or high performance polymers have traditionally been specified.

With Nylatron® FST Mitsubishi Chemical Advanced Materials is first on the market with a commercially attractive solution for interior applications in aircraft. Nylatron® FST has passed tests to comply with Federal Aviation Regulations FAR 25.853 – the first engineering plastic shape to achieve this standard and offering engineers a safe material solution.

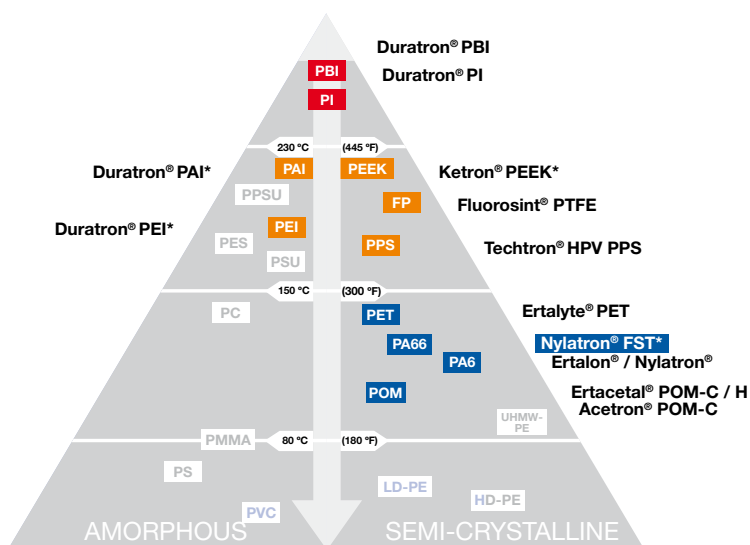
Key benefits

- Absolutely reliable and constant flame, smoke and toxicity retardant compared to standard Nylon 66
- Balanced property profile
- Beneficial cost-performance-ratio
- Lightweight (60% weight saving compared to aluminum)

Key properties

- Very low noise development
- Easy to machine
- Wear-friendly to mating surfaces

The Mitsubishi Chemical Advanced Materials Aerospace Portfolio



Mitsubishi Chemical Advanced Materials Certified Polymer Solutions

- AS9100D accredited
- ISO 9001 certified
- ISO 14001 certified
- OEM approved
- * FAR/JAR certified



Burn test results

	Flammability Small burner test vertical	Smoke density test	Smoke toxicity test
Airbus test method Boeing test method FAR 25.853 ref	AITM2.002A+B BBS 7230: F1+2 FAR 25.853 appendix F part I	AITM2.0007 A (flaming mode) BBS 7238 (flaming mode) FAR 25.853 Appendix F part V	AITM3.0005 BSS 7239
Nylatron® FST	Pass	Pass	Pass
Nylatron® 66 SA FR	Pass	Fail	Fail
Ertalon® 66 SA	Fail	Pass	Not tested
Ketron® 1000 PEEK	Pass	Pass	Pass

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