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.

Quadrant’s new 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 Quadrant 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
Quadrant’s Certified Polymer Solutions
- AS9100C accredited
- ISO 9001 certified
- ISO 14001 certified
- OEM approved
- * FAR/JAR certified

150 ºC (300 ºF)
80 ºC (180 ºF)

SEMI-CRYSTALLINE
- PA66
- POM
- PA6
- PET
- PMMA
- PVC
- PS
- LD-PE
- HD-PE
- UHMW-PE
- PSU
- PES
- PC
- PAI
- PPS
- PEEK
- FP
- PBI
- PI
- Ketron® PEEK*
- Fluorosint® PTFE
- Techtron® HPV PPS
- Ertacetal® POM-C / H
- Acetron® POM-C

AMORPHOUS
- Ertalyte® PET
- Nylatron® FST*
- Ertalon® / Nylatron®

* FAR/JAR certified

The Quadrant Aerospace Portfolio

Burn test results

<table>
<thead>
<tr>
<th>Flammability Small burner test vertical</th>
<th>Smoke density test</th>
<th>Smoke toxicity test</th>
</tr>
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<tbody>
<tr>
<td>Airbus test method</td>
<td>AITM2.002A+B BBS 7230 Appendix F part I</td>
<td>AITM2.0007 A (flaming mode) BBS 7238 Appendix F part V</td>
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<tr>
<td>Boeing test method FAR 25.853 ref</td>
<td>AITM3.0005 BBS 7239</td>
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<tr>
<td>Nylatron® FST</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>Nylatron® 66 SA FR</td>
<td>Pass</td>
<td>Fail</td>
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<tr>
<td>Ertalon® 66 SA</td>
<td>Fail</td>
<td>Pass</td>
</tr>
<tr>
<td>Ketron® 1000 PEEK</td>
<td>Pass</td>
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</tr>
</tbody>
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