



**RMB 435
POLYLAURYLACTAM,
DATA SHEET**

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|--|-----------------|-------------|--------------------|
| Tensile at Yield | ASTM D-638 | psi | 5,000 |
| Tensile at Break | ASTM D-638 | psi | 5,500 |
| Elongation at Break | ASTM D-638 | Percent | 500 |
| Flexural modulus | ASTM D-790 | psi | 13x10 ⁵ |
| Izod impact, Unnotched (0.21" thick) | ASTM D-256 | ft-lbs/inch | No Break |
| Izod impact, Rev. Notched (0.21" thick) | ASTM D-256 | ft-lbs/inch | No Break |
| Izod impact, Notched (0.21" thick) | ASTM D-256 | ft-lbs/inch | 1.3 |
| Specific Gravity | ASTM D-792 | | 1.0-1.1 |
| Vicat Softening Temp. | ASTM D- 1525 | °C | 168 |
| Solvent Resistant | Table Available | | Excellent |
| 12 Sec. Vertical Burn | FAR 25.853 (b) | | Pass |
| 60 Sec. Vertical Burn | FAR 25.853 (a) | | Pass |
| Optical Smoke Density (0.065 in. Thick) | ASTM F-814 | | <200 |
| Color | | | Black |

RMB-435 is a high impact flame retardant polyamide based resin specially formulated for aerospace ECS ducting. Excellent physical properties, low moisture absorption and ease of processing make RMB-435 the ideal alternative to composite or metallic ducting.

This resin has excellent burn characteristics. Zero drip time meets or exceeds FAA requirements for the 12 and 60 seconds vertical burn tests. Smoke emission level @ 4 minutes is well below 200 making this product an excellent candidate for interior components on commercial aircraft.

RMB-435 is specified by Boeing Commercial Aircraft (BMS 8-270), Douglas Aircraft (23 IO) McAir Saint Louis MMS 5028, and MDHC HMS 16- 1269 for use in the fabrication of components for their aircraft.

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