

PA2210 FR

Flame-Retardant

High-temperature material



A flame-retardant, halogen-free, off-white SLS with strong chemical resistance.

Benefits

- Flame retardant
- High-temperature resistant
- Superb long-term stability

Applications

- Aerospace industry testing (passes 12s burning test at wall thickness of 1.5 & 2mm)
- Electrical and electronic housings



Physical Properties

| | |
|--------|------------------------------|
| Colour | White |
| Type | Flame retardant SLS material |

Mechanical Properties

| | | TEST/ISO |
|--|--------------|---------------|
| Flexural Modulus (MPa) | 2,300 | DIN EN ISO178 |
| Tensile Strength, Z Direction (MPa) | 41 | Din EN ISO527 |
| Tensile Strength, X, Y Direction (MPa) | 45 | |
| Tensile Modulus, Z Direction (MPa) | 2,300 | ATSM D638 |
| Tensile Modulus, X, Y Direction (MPa) | 2,500 | |
| Elongation Break (%) | 5 | |
| Impact Strength (J/m) | 3 | ATSM D256 |
| Density (g/cm ³) | 1.06 | N/A |

Thermal Properties & Burning Behaviour

| | | |
|------------------------------------|---|---|
| Melting Point (°C) | 176 | ISO 11357 |
| Flammability for parts | 1.1 mm | UL94 / HB |
| In devices & appliances | 2.0 mm | UL94 / V-0 |
| Flammability Properties (Aircraft) | 1.5/2.0 mm 1.5/2.0 mm 0.06/0.08 inches | FAR25.853 b(4) ABD 0031 / AITM 2.0002 BSS 7230 F2 |
| Smoke Generation (Aircraft) | 1.5/2.0 (MPa)mm 1.5/2.0 (MPa)mm 0.06/0.08 inches | FAR 25.853 (d) ABD 0031 / AITM 2.0007 BSS 7238 |

| | | |
|------------------------------------|--|-----------------------------------|
| Toxic Gas Generation (Aircraft) | 1.5/2.0 mm 0.06/0.08 mm | ABD 0031 / AITM 3.005 BSS 7239 |
|------------------------------------|--|-----------------------------------|

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