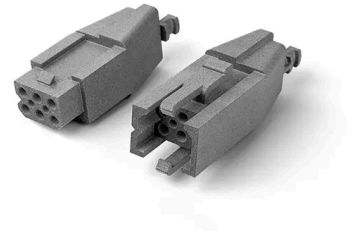


Nylon PA12 Flame retardant

Nylon PA12 FR

PA12 Flame Retardant (FR) is a high-performance thermoplastic material specifically developed to meet industrial 3D printing requirements using Multi Jet Fusion (MJF) technology. Derived from polyamide 12 (PA12), this advanced compound is enhanced with specialised flame-retardant additives, providing excellent fire-resistant properties.



Material properties

| | | | |
|---------------------------------------|-----------------------|----------------------------|-------------------|
| Density | ASTM D792 | 1.13 | g/cm ³ |
| Suitability for food contact | | NO | |
| Tensile strength | ASTM D638 | 46 | MPa |
| Elongation at break | ASTM D638 | 4 | % |
| Elastic modulus | ASTM D638 | 2540 | MPa |
| HDT 0.45 MPa | ASTM D648 | 172 | °C |
| HDT 1.8 MPa | ASTM D648 | 97 | °C |
| Melting temperature | ASTM D3418 | 187 | °C |
| Volumic electrical resistivity | UL746A / ASTM D257 | 5 * 10¹² | Ω*m |

Printing layer height

0,08 mm (0,003 in)

Maximum dimensions

380x284x380 mm (15x11.2x15 in)

Tolerances

± 0,50mm < 100mm / ± 0,5% > 100mm

Applications

Ideal for components in aerospace, automotive, railway, and electronics sectors requiring high flame resistance and certified safety standards.

Certifications

UL94 V-0 classification

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