

Nylon 12 flame retardant / PA 2241 FR

Key Features

Flame retardancy • Chemical resistance • Thermal stability

Applications

End-use parts • Aerospace

Product Description

PA 2241 FR is a white polyamide 12 powder designed for laser sintering systems, incorporating a halogen-based flame retardant. Its recyclability offers exceptional cost-efficiency compared to other flame-retardant materials. Additively manufactured parts exhibit excellent tensile strength, making them ideal for aircraft interior applications such as ventilation ducts and exhaust valves.

Properties

Tensile modulus (for dry state)	1,900 MPa
Tensile strength (X/Y, Z) (for dry state)	49, 46 MPa
Elongation at break (X/Y, Z) (for dry state)	15, 6%
Melting temperature (20°C/min)	185°C
Heat deflection temperature (0.45 MPa)	154°C
Heat deflection temperature (1.80 MPa)	84°C
Density	1.00 g/cm ³
Hardness	89 HRB
Flame retardancy	Flammability 1 mm JAR/FAR/CS 25.853

Reference

For more detailed source information, please consult the original documents linked [here](#) and [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

