

PA 2210 FR

Fire retardant SLS material
Available on P380 SLS machine

Technical data

Properties

Density of laser-sintered part	EOS Method 1.05±0.05g/cm ³
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Mechanical Properties

Measurement	Condition	Value
	DIN EN ISO	
Tensile Modulus	527	2250±150MPa
Tensile Strength	527	45±3MPa
Elongation@Break	527	5.0±1%
Flexural Modulus	178	1750±100MPa
Flexural Strength	178	45±2MPa

Thermal Properties

Melting Point	DIN 53736	172-180 °c
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Burning Behaviour

Flammability for parts	UL94/HB	1.1mm
In devices and appliances	UL94/V-0	2.0mm
Flammability properties (Aircraft)	FAR 25.853 b(4) ABD 0031/AITM 2.0002 BSS 7230 F2	1.5/2.0mm 1.5/2.0mm 0.06/0.08inches
Smoke generation (Aircraft)	FAR 25.853 (d) ABD 0031/AITM 2.0007 BSS 7238	1.5/2.0mm 1.5/2.0mm 0.06/0.08inches
Toxic gas generation (Aircraft)	ABD 0031/AITM 3.0005 BSS 7239	1.5/2.0mm 0.06/0.08inches

Features, benefits & applications

- Typical application of PA 2210 FR is the manufacture of flame resistant parts with high mechanical properties
- PA2210 FR contains a chemical flame retardant. In case of fire, a carbonating coating arises at the surface of the part, isolating the plastic below. PA 2210 FR is free of halogens
- The recommended layer thickness is 0.15mm
- To assure a consistent quality of parts, we only use new powder