PA 2210 FR (Fire Retardant)

Material for the SLS process

ogle models+prototypes

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Technical Data Sheet

www.oglemodels.com

Features, benefits and applications

- Perfect for manufacture of flame resistant parts with high mechanical properties
- Contains a chemical flame retardant
- In case of fire, carbonating coating arises at surface of part, isolating plastic below
- Free of halogens
- The recommended layer thickness is 0.15mm
- To assure a consistent quality of parts, we only use new powder
- For a more attractive and smoother surface texture, use Ogle's Vibro finishing service

General Material Properties

Measurement	Condition	Value
Density of Laser Sintered Part	EOS-Method	1.05 ±0.05g/cm³

Mechanical Properties

Measurement	Condition	Value
Tensile Modulus	DIN EN ISO 527	2250 ±150 MPa
Tensile Strength	DIN EN ISO 527	45 ±3MPa
Elongation at Break	DIN EN ISO 527	5.0 ±1%
Flexural Modulus	DIN EN ISO 178	2300 ±100 MPa
Flexural Strength	DIN EN ISO 178	65 ±2MPa

Thermal Properties

Measurement	Condition	Value
Melting Point	DIN EN ISO 11357	185°C
Flammability for Parts	UL94/HB	1.1mm
In Devices & Appliances	UL94/V-0	2.0mm
Flammability Properties (Aircraft)	FAR 25.853 b(4)	1.5 / 2.0mm
	ABD 0031/AITM 2.0002	1.5 / 2.0mm
	BSS 7230 F2	0.06 / 0.08 inches
Smoke Generation (Aircraft)	FAR 25.853(d)	1.5 / 2.0mm
	ABD 0031/AITM 2.0007	1.5 / 2.0mm
	BSS 7238	0.06 / 0.08 inches
Toxic Gas Generation	ABD 0031/AITM 3.0005	1.5 / 2.0mm
	BSS 7239	0.06 / 0.08 inches