PA 2210 FR (Fire Retardant)

Material for the SLS process



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Technical Data Sheet

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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/cm ³	

Mechanical Properties	lechanical 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		





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