

EOS PA 2210 FR

Polyamide 12

EOS GmbH

Message:

- Product information
 - PA 2210 FR is a polyamide 12 for processing in laser sintering systems with a halogen free, chemical flame retardant. In case of fire a carbonating coating arises on the surface of the part, isolating the plastic below.
- Properties
 - free of halogens
 - higher stiffness compared to unfilled PA 12
- Acceptance criteria
 - JAR 25 (aviation)
 - UL 94 (Electrical & Electronics)
- Typical applications
 - aviation (e.g. air ducts)
 - plastic parts in devices and appliances (e.g. E&E housings)

General Information				
Additive		Flame Retardant		
Features		Flame Retardant		
		Good Chemical Resistance		
		Good Thermal Stability		
		Grease Resistant		
		Halogen Free		
		Highly Crystalline		
		Oil Resistant		
Uses		Aerospace Applications		
		Aircraft Applications		
		Electrical/Electronic Applications		
		Housings		
Agency Ratings		JAR 25.853		
		UL 94		
Appearance		White		
Forms		Powder		
Processing Method		3D Printing, Laser Sintering/Melting		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				
-- ¹	2300	2200	MPa	ISO 527-2
-- ²	2500	2400	MPa	ISO 527-2

Tensile Stress				
3.0% Strain ³	41.0	--	MPa	ISO 527-2
4.0% Strain ⁴	--	38.0	MPa	ISO 527-2
4.0% Strain ⁵	46.0	--	MPa	ISO 527-2
6.0% Strain ⁶	--	43.0	MPa	ISO 527-2
Tensile Strain				
Break ⁷	3.0	4.0	%	ISO 527-2
Break ⁸	4.0	7.0	%	ISO 527-2
Flexural Modulus ⁹ (23°C)	2300	--	MPa	ISO 178
Flexural Stress ¹⁰	65.0	--	MPa	ISO 178
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ¹¹	185	--	°C	ISO 11357
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
1.10 mm	HB	--		
1.20 mm	HB	--		
1.30 mm	HB	--		
1.40 mm	HB	--		
3.00 mm	HB	--		
2.00 mm	V-0	--		
2.40 mm	V-0	--		
3.20 mm	V-0	--		
4.00 mm	V-0	--		
Flame Test				FAR 25.853
1.70 mm	Passed	--		
2.00 mm	Passed	--		
Smoke Density				AITM 2.0007
1.70 mm	Passed	--		
2.00 mm	Passed	--		
Toxicity				AITM 3.0005
1.70 mm	Passed	--		
2.00 mm	Passed	--		
NOTE				
1.	Z Direction			
2.	Y Direction			
3.	Z Direction			
4.	Z Direction			
5.	X Direction			
6.	X Direction			
7.	Z Direction			
8.	Y Direction			
9.	X Direction			

10.	X Direction
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11.	20°C/min
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