

SAXAMID™ 126F4RZ21

Polyamide 6

SAX Polymers

Message:

SAXAMID 126F4RZ21 is a polyamide 6 injection-molding-grade reinforced with 20 % glass fibres. This grade is equipped with a halogeneous-free and phosphorus-free flame retardant.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Viscosity Number (H2SO4 (Sulphuric Acid))	150	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8100	MPa	ISO 527-2/1
Tensile Stress (Break)	124	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ¹	6800	MPa	ISO 178
Flexural Stress ²	208	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	79	kJ/m ²	
23°C	83	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	9.0	kJ/m ²	
23°C	12	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	67	kJ/m ²	
23°C	68	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed, 60.0 mm Span)	212	°C	ISO 75-2/A

Vicat Softening Temperature	216	°C	ISO 306/B120
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-2		UL 94
Glow Wire Flammability Index (2.00 mm)	600	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	725	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 6.0	hr	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	260 to 290	°C	
Mold Temperature	70.0 to 90.0	°C	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	80*10*4mm		

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