

SAXAMID™ 126F6T3

Polyamide 6

SAX Polymers

Message:

SAXAMID 126F6T3 is a polyamide 6 injection-molding-grade reinforced with 30 % glass fibres and 15 % PTFE. Because of its high strength and stiffness this grade is often used for stressed parts requiring low friction - low friction coefficients result in very good wear resistance.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	High Stiffness		
	High Strength		
	Low Friction		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Viscosity Number (H2SO4 (Sulphuric Acid))	150	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7100	MPa	ISO 527-2/1
Tensile Stress (Break)	150	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	8100	MPa	ISO 178
Flexural Stress ²	268	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	76	kJ/m ²	
23°C	82	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	75	kJ/m ²	
23°C	79	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature ³ (1.8 MPa, Unannealed, 60.0 mm Span)	209	°C	ISO 75-2/A
Vicat Softening Temperature	216	°C	ISO 306/B120
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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