

Sax Polymers SAXAMID 126F4RZ21 Nylon 6, 20% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

SAXAMID 126F4RZ21 is a polyamide 6 injection-molding-grade reinforced with 20% glass fibers. It is equipped with a halogen-free and phosphorus-free flame retardant. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-126F4RZ21-Nylon-6-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Viscosity Test	150 cm ³ /g	150 cm ³ /g	H ₂ SO ₄ ; ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength	124 MPa	18000 psi	5 mm/min; ISO 527-1
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527-1
Tensile Modulus	8.10 GPa	1170 ksi	1 mm/min; ISO 527-1
Flexural Strength	208 MPa	30200 psi	2 mm/min; ISO 178
Flexural Modulus	6.80 GPa	986 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	67.0 kJ/m ²	31.9 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	68.0 kJ/m ²	32.4 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	7.90 J/cm ²	37.6 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.30 J/cm ²	39.5 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
Charpy Impact, Notched	0.900 J/cmÂ² @Temperature -30.0 Â°C	4.28 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	1.10 J/cmÂ² @Temperature 23.0 Â°C	5.23 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C	414 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	216 Â°C	421 Â°F	B/120; ISO 306
Flammability, UL94	V-2	V-2	
Glow Wire Test	600 Â°C @Thickness 2.00 mm	1110 Â°F @Thickness 0.0787 in	GWFI; IEC 60695-2-12
	725 Â°C @Thickness 1.00 mm	1340 Â°F @Thickness 0.0394 in	GWIT; IEC 60695-2-13

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 Â°C	500 - 554 Â°F	
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
Drying Temperature	80.0 Â°C @Time 7200 - 21600 sec	176 Â°F @Time 2.00 - 6.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

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