

Sax Polymers SAXAMID 126F6RY01 Nylon 6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

SAXAMID 126F6RY01 is a polyamide 6 injection-molding-grade reinforced with 30% glass fibers. It has a halogen-free flame retardant. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-126F6RY01-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 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	134 MPa	19400 psi	5 mm/min; ISO 527-1
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527-1
Tensile Modulus	11.2 GPa	1620 ksi	1 mm/min; ISO 527-1
Flexural Strength	215 MPa	31200 psi	2 mm/min; ISO 178
Flexural Modulus	9.20 GPa	1330 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 Å°C	@Temperature -22.0 Å°F	
	11.0 kJ/m ²	5.23 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	60.0 kJ/m ²	28.6 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact Unnotched	6.90 J/cm ²	32.8 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.800 J/cm ² @Temperature 23.0 Â°C	3.81 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179/1eA
	0.900 J/cm ² @Temperature -30.0 Â°C	4.28 ft-lb/in ² @Temperature -22.0 Â°F	
	0.900 J/cm ² @Temperature 23.0 Â°C	4.28 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	215 Â°C	419 Â°F	B/120; ISO 306
Flammability, UL94	V-0	V-0	
Glow Wire Test	750 Â°C @Thickness 1.00 mm	1380 Â°F @Thickness 0.0394 in	GWIT; IEC 60695-2-13
	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	

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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