

Sax Polymers SAXAMID 126F6 Nylon 6, 30% Glass Fiber

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

Material Notes:

SAXAMID 126F6 is a polyamide 6 injection-molding-grade reinforced with 30% glass fibers. Because of its high strength and stiffness this grade is often used for stressed parts. Other properties are very good processability and good surface quality. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-126F6-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Viscosity Test	150 cm ³ /g	150 cm ³ /g	H₂SO₄; ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength	190 MPa	27600 psi	5 mm/min; ISO 527-1
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527-1
Tensile Modulus	9.20 GPa	1330 ksi	1 mm/min; ISO 527-1
Flexural Strength	280 MPa	40600 psi	2 mm/min; ISO 178
Flexural Modulus	7.60 GPa	1100 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	78.0 kJ/m ²	37.1 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	82.0 kJ/m ²	39.0 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.50 J/cm ²	40.4 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 Â°C	@ Temperature 73.4 Â°F	ISO 179/1eA
Charpy Impact, Notched	1.10 J/cmÂ² @Temperature -30.0 Â°C	5.23 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	1.30 J/cmÂ² @Temperature 23.0 Â°C	6.19 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	209 Â°C	408 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	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

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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