

Sax Polymers SAXAMID 226F6T3 Nylon 6.6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

SAXAMID 226F6T3 is a general purpose polyamide 6.6 injection-molding-grade reinforced with 30% glass fibers. It shows its high mechanical strength over a long period and is able to perform at higher temperatures in combination with low friction coefficient and very good wear resistance. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-226F6T3-Nylon-66-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 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	175 MPa	25400 psi	5 mm/min; ISO 527-1
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1
Tensile Modulus	9.50 GPa	1380 ksi	1 mm/min; ISO 527-1
Flexural Strength	280 MPa	40600 psi	2 mm/min; ISO 178
Flexural Modulus	8.20 GPa	1190 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	
	80.0 kJ/m ²	38.1 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	7.00 J/cm ²	33.3 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	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 Â°C	@ Temperature 73.4 Â°F	ISO 179/1eA
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	240 Â°C	464 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	250 Â°C	482 Â°F	B/120; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 Â°C	536 - 572 Â°F	
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
	@Time 7200 - 21600 sec	@Time 2.00 - 6.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

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