

Sax Polymers SAXAMID 226F7 Nylon 6.6, 35% Glass Fiber

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

Material Notes:

SAXAMID 226F7 is a general purpose polyamide 6.6 injection-molding-grade reinforced with 35% glass fibers. It has very high mechanical strength in combination with good impact resistance. It is characterized by high mechanical strength over a long period and is able to perform at higher temperatures. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-226F7-Nylon-66-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 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	215 MPa	31200 psi	5 mm/min; ISO 527-1
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1
Tensile Modulus	11.0 GPa	1600 ksi	1 mm/min; ISO 527-1
Flexural Strength	290 MPa	42100 psi	2 mm/min; ISO 178
Flexural Modulus	8.50 GPa	1230 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	80.0 kJ/m ²	38.1 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	90.0 kJ/m ²	42.8 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.60 J/cm ²	40.9 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.60 J/cm ²	45.7 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	248 °C	478 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	255 °C	491 °F	B/120; ISO 306

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

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