

Sax Polymers SAXAMID 226F10 Nylon 6.6, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

SAXAMID 226F10 is a polyamide 6.6 injection-molding-grade reinforced with 50% glass fibers. It has high mechanical strength. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-226F10-Nylon-66-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Viscosity Test	150 cm ³ /g	150 cm ³ /g	H ₂ O; ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength	255 MPa	37000 psi	5 mm/min; ISO 527-1
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527-1
Tensile Modulus	15.5 GPa	2250 ksi	1 mm/min; ISO 527-1
Flexural Strength	290 MPa	42100 psi	2 mm/min; ISO 178
Flexural Modulus	12.3 GPa	1780 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	17.0 kJ/m ²	8.09 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	96.0 kJ/m ²	45.7 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	103 kJ/m ²	49.0 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	10.7 J/cm ²	50.9 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	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.60 J/cmÂ²	7.61 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)	250 Â°C	482 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	255 Â°C	491 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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