

## Sax Polymers SAXAMID 126F4 Nylon 6, 20% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

### Material Notes:

SAXAMID 126F4 is a polyamide 6 injection-molding-grade reinforced with 20% glass fibers. Information provided by SAX Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sax-Polymers-SAXAMID-126F4-Nylon-6-20-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-126F4-Nylon-6-20-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	ISO 1183
Viscosity Test	150 cm <sup>3</sup> /g	150 cm <sup>3</sup> /g	H<sub>2</sub>SO<sub>4</sub>; ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength	148 MPa	21500 psi	5 mm/min; ISO 527-1
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527-1
Tensile Modulus	7.10 GPa	1030 ksi	1 mm/min; ISO 527-1
Flexural Strength	243 MPa	35200 psi	2 mm/min; ISO 178
Flexural Modulus	5.40 GPa	783 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	50.0 kJ/m <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	53.0 kJ/m <sup>2</sup>	25.2 ft-lb/in <sup>2</sup>	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.90 J/cm <sup>2</sup>	23.3 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.40 J/cm <sup>2</sup>	25.7 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric $J/cm\hat{A}^2$	English $lb/in\hat{A}^2$	Comments
Charpy Impact, Notched	@Temperature -30.0 $\hat{A}^{\circ}C$	@Temperature -22.0 $\hat{A}^{\circ}F$	ISO 179/1eA
	0.900 $J/cm\hat{A}^2$  @Temperature 23.0 $\hat{A}^{\circ}C$	4.28 $ft-lb/in\hat{A}^2$  @Temperature 73.4 $\hat{A}^{\circ}F$	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	207 $\hat{A}^{\circ}C$	405 $\hat{A}^{\circ}F$	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	214 $\hat{A}^{\circ}C$	417 $\hat{A}^{\circ}F$	B/120; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 $\hat{A}^{\circ}C$	500 - 554 $\hat{A}^{\circ}F$	
Mold Temperature	70.0 - 90.0 $\hat{A}^{\circ}C$	158 - 194 $\hat{A}^{\circ}F$	
Drying Temperature	80.0 $\hat{A}^{\circ}C$  @Time 7200 - 21600 sec	176 $\hat{A}^{\circ}F$  @Time 2.00 - 6.00 hour	
Moisture Content	$\leq 0.20\%$	$\leq 0.20\%$	

## Contact Songhan Plastic Technology Co.,Ltd.

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