

Sax Polymers SAXAMID 226F4RY01 Nylon 6.6, 20% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

SAXAMID 226F4RY01 is a polyamide 6.6 injection-molding-grade reinforced with 20% glass fibers. It has a halogen-free flame retardant. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-226F4RY01-Nylon-66-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Viscosity Test	150 cm ³ /g	150 cm ³ /g	H ₂ SO ₄ ; ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength	118 MPa	17100 psi	5 mm/min; ISO 527-1
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527-1
Tensile Modulus	8.30 GPa	1200 ksi	1 mm/min; ISO 527-1
Flexural Strength	180 MPa	26100 psi	2 mm/min; ISO 178
Flexural Modulus	6.70 GPa	972 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.50 kJ/m ²	3.09 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.60 J/cm ²	21.9 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.70 J/cm ²	27.1 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 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)	239 °C	462 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	248 °C	478 °F	B/120; ISO 306
Flammability, UL94	V-0	V-0	
Glow Wire Test	750 °C	1380 °F	GWIT; IEC 60695-2-13
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	960 °C	1760 °F	GWFI; IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 295 °C	536 - 563 °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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