

Sax Polymers SAXAMID 226F6RY01 Nylon 6.6, 30% Glass Fiber

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

Material Notes:

SAXAMID 226F6RY01 is a polyamide 6.6 injection-molding-grade reinforced with 30% 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-226F6RY01-Nylon-66-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 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	131 MPa	19000 psi	5 mm/min; ISO 527-1
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527-1
Tensile Modulus	10.5 GPa	1520 ksi	1 mm/min; ISO 527-1
Flexural Strength	198 MPa	28700 psi	2 mm/min; ISO 178
Flexural Modulus	8.50 GPa	1230 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.50 kJ/m ²	3.57 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	46.0 kJ/m ²	21.9 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.80 J/cm ²	22.8 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.40 J/cm ²	25.7 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English °F	Comments
Charpy Impact, Notched	0.600 J/cm ²	2.86 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)	243 °C	469 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	253 °C	487 °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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