

Sax Polymers SAXAMID 236F4Q32 Nylon 6.6, 20% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled , Nylon 66, Glass Reinforced, Impact Grade

Material Notes:

SAXAMID 236 F4Q32 is a impact-modified polyamide 6.6 injection-molding-grade reinforced with 20% glass fibers and very good flow properties. It is suitable for applications requiring toughness in combination with low creep properties. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-236F4Q32-Nylon-66-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 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	115 MPa	16700 psi	5 mm/min; ISO 527-1
Elongation at Break	3.4 %	3.4 %	5 mm/min; ISO 527-1
Tensile Modulus	5.50 GPa	798 ksi	1 mm/min; ISO 527-1
Flexural Strength	163 MPa	23600 psi	2 mm/min; ISO 178
Flexural Modulus	4.80 GPa	696 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	15.0 kJ/m ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/m ² @Temperature -30.0 °C	35.7 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	90.0 kJ/m ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched	6.90 J/cm ² @Temperature -30.0 °C	32.8 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.70 J/cm ²	8.09 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)	235 °C	455 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	235 °C	455 °F	B/120; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 °C	500 - 554 °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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