Sax Polymers SAXAMID 226F5 Nylon 6.6, 25% Glass Fiber

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

Material Notes:

SAXAMID 226F5 is a general purpose polyamide 6.6 injection-molding-grade reinforced with 25% glass fibers. It has high mechanical strength in combination with good flow properties.Information provided by SAX Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-226F5-Nylon-66-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/inÂ³	ISO 1183
Viscosity Test	150 cmÂ³/g	150 cmÂ³/g	H₂SO₄; ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength	175 MPa	25400 psi	5 mm/min; ISO 527-1
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1
Tensile Modulus	8.60 GPa	1250 ksi	1 mm/min; ISO 527-1
Flexural Strength	250 MPa	36300 psi	2 mm/min; ISO 178
Flexural Modulus	7.00 GPa	1020 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/mÂ² @Temperature -30.0 Â°C	5.23 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180/1A
	13.0 kJ/mÂ² @Temperature 23.0 Â°C	6.19 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180/1A
Izod Impact, Unnotched (ISO)	47.0 kJ/mÂ² @Temperature -30.0 Â°C	22.4 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180/1U
	55.0 kJ/mÂ² @Temperature 23.0 Â°C	26.2 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180/1U
Charpy Impact Unnotched	5.50 J/cmÂ² @Temperature -30.0 Â°C	26.2 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	1.10 J/cmÂ² @Temperature -30.0 Â°C	5.23 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	1.20 J/cmÂ² @Temperature 23.0 Â°C	5.71 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C	473 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	250 Â°C	482 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 @Time 7200 - 21600 sec	176 Â°F @Time 2.00 - 6.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

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