

Sax Polymers SAXAMID 126F8 Nylon 6, 40% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

SAXAMID 126F8 is a polyamide 6 injection-molding-grade reinforced with 40% glass fibers. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-126F8-Nylon-6-40-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 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	195 MPa	28300 psi	5 mm/min; ISO 527-1
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1
Tensile Modulus	12.2 GPa	1770 ksi	1 mm/min; ISO 527-1
Flexural Strength	307 MPa	44500 psi	2 mm/min; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	80.0 kJ/m ²	38.1 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	83.0 kJ/m ²	39.5 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179/1eA
	1.30 J/cmÂ² @Temperature 23.0 Â°C	6.19 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	209 Â°C	408 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	216 Â°C	421 Â°F	B/120; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 Â°C	500 - 554 Â°F	
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
	@Time 7200 - 21600 sec	@Time 2.00 - 6.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

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