

Sax Polymers SAXAMID 126F4MW4 Nylon 6, 40% Glass Fiber and Mineral Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

SAXAMID 126F4MW4 is a 40% glass fibers/ mineral reinforced polyamide 6 injection-molding-grade. It has dimensional stability and high strength. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-126F4MW4-Nylon-6-40-Glass-Fiber-and-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 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	130 MPa	18900 psi	5 mm/min; ISO 527-1
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1
Tensile Modulus	8.90 GPa	1290 ksi	1 mm/min; ISO 527-1
Flexural Strength	190 MPa	27600 psi	2 mm/min; ISO 178
Flexural Modulus	6.80 GPa	986 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	53.0 kJ/m ²	25.2 ft-lb/in ²	ISO 180/1U
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	5.30 J/cm ²	25.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	5.50 J/cm ²	26.2 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 Â°C	@ Temperature 73.4 Â°F	ISO 179/1eA
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	197 Â°C	387 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	212 Â°C	414 Â°F	B/120; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 295 Â°C	518 - 563 Â°F	
Mold Temperature	80.0 - 95.0 Â°C	176 - 203 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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