

Sax Polymers SAXAMID 126H Nylon 6, Injection Molding Grade

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

SAXAMID 126H is a general purpose polyamide 6 injection-molding-grade. Benefits are short cycle times and good release properties. Additionally it has a higher content of heat stabilizer which is preferred used at higher temperatures. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-126H-Nylon-6-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	9.5 %	9.5 %	Sim. ISO 62
Moisture Absorption	3.00 %	3.00 %	Sim. ISO 62
Viscosity Test	150 cm ³ /g	150 cm ³ /g	H ₂ SO ₄ ; ISO 307

Mechanical Properties	Metric	English	Comments
Tensile Strength	82.0 MPa	11900 psi	50 mm/min; ISO 527-1
Elongation at Break	13 %	13 %	50 mm/min; ISO 527-1
Tensile Modulus	2.80 GPa	406 ksi	1 mm/min; ISO 527-1
Flexural Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (104 psi)	250.0 Â°C	482.0 Â°F	50mm; ISO 75-1 a
Vicat Softening Point	203 Â°C	397 Â°F	B/120; ISO 306
Glow Wire Test	750 Â°C	1380 Â°F	GWFI; IEC 60695-2-12

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 Â°C	482 - 518 Â°F	
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 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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