

Sax Polymers SAXAMID 136F6Q32 Nylon 6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Filled, Impact Grade

Material Notes:

SAXAMID 136F6Q32 is a high-impact-modified polyamide 6 injection-molding-grade reinforced with 30% glass fibers . Beside the high impact strength at low temperatures this grade shows very good processability. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXAMID-136F6Q32-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 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	96.0 MPa	13900 psi	5 mm/min; ISO 527-1
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527-1
Tensile Modulus	6.80 GPa	986 ksi	1 mm/min; ISO 527-1
Flexural Strength	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Modulus	4.80 GPa	696 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	21.0 kJ/m ²	9.99 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	78.0 kJ/m ²	37.1 ft-lb/in ²	ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	90.0 kJ/m ²	42.8 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 -30.0 °C	@Temperature -22.0 °F	
	9.30 J/cm ²	44.3 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English °F	Comments
Charpy Impact, Notched	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.00 J/cm ²	9.52 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)	186 °C	367 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	187 °C	369 °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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