





Sax Polymers SAXAMID 126F4RZ21 Nylon 6, 20% Glass Fiber

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Nylon 6 \(PA6\)](#); [Nylon 6, 20% Glass Fiber Filled](#); [Nylon 6, Glass Fiber Filled, Flame Retardant](#)

Material Notes: SAXAMID 126F4RZ21 is a polyamide 6 injection-molding-grade reinforced with 20% glass fibers. It is equipped with a halogen-free and phosphorus-free flame retardant.

Information provided by SAX Polymers

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Viscosity Test	150 cm ³ /g	1.50 dl/g	H ₂ SO ₄ ; ISO 307
Mechanical Properties	Metric	English	Comments
Tensile Strength	124 MPa	18000 psi	5 mm/min; ISO 527-1
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527-1
Tensile Modulus	8.10 GPa	1170 ksi	1 mm/min; ISO 527-1
Flexural Strength	208 MPa	30200 psi	2 mm/min; ISO 178
Flexural Modulus	6.80 GPa	986 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO) 	9.00 kJ/m ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO) 	67.0 kJ/m ² @Temperature -30.0 °C	31.9 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	68.0 kJ/m ² @Temperature 23.0 °C	32.4 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U
Charpy Impact Unnotched 	7.90 J/cm ² @Temperature -30.0 °C	37.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	8.30 J/cm ² @Temperature 23.0 °C	39.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched 	0.900 J/cm ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.10 J/cm ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	212 °C	414 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	216 °C	421 °F	B/120; ISO 306
Flammability, UL94	V-2	V-2	
Glow Wire Ignition Temperature	725 °C @Thickness 1.00 mm	1340 °F @Thickness 0.0394 in	IEC 60695-2-13
Glow Wire Flammability Index	600 °C @Thickness 2.00 mm	1110 °F @Thickness 0.0787 in	IEC 60695-2-12
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 @Time 7200 - 21600 sec	176 °F @Time 2.00 - 6.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.