

## Technical Data Sheet

**Schulamid 6 GF 30 KU NAT**

Polyamide 6

**Product Description**

*Schulamid 6 GF 30 KU NAT* is a Polyamide 6 Glass Fiber, 30% filled material and is typically used in Injection Molding applications. Features include: Good Toughness, High Stiffness, and Oil Resistant.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Good Toughness; High Stiffness; Oil Resistant
<b>Filler/Reinforcement</b>	Glass Fiber, 30%
<b>Resin ID</b>	PA6-GF30

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.35	g/cm <sup>3</sup>	ISO 1183
Viscosity Number	145	cm <sup>3</sup> /g	ISO 307
<b>Mechanical</b>			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	8.0	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	170	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	100	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	9500	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	5000	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	12	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	9.0	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	30	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	80	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	60	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
<b>Thermal</b>			
Vicat Softening Temperature, (B (50N), 50 °C/h)	210	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	215	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	200	°C	ISO 75-2/A

**Flammable**

<b>Burning Rate</b>			
(2.00 mm)	40	mm/min	FMVSS 302
(2.00 mm)	40	mm/min	ISO 3795
<b>Glow Wire Flammability Index</b>			
(1.5 mm) - Conditioned	650	°C	IEC 60695-2-12
(3.0 mm) - Conditioned	650	°C	IEC 60695-2-12

**Additional Information**

Water Absorption 23C/50RH	2	%	ISO 62
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**UL Information**

<b>Flammability Classification</b>			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		

**Injection Parameters**

	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	250 to 280	°C
Mold Temperature	60 to 100	°C