

## Technical Data Sheet

**Schulamid 6 GF50 K1906 LS BLK968145**

Polyamide 6

**Product Description**

*Schulamid 6GF50K1906 LSBLK968145* is a Polyamide 6 Glass Fiber, 50% filled material and is typically used in Injection Molding applications. Features include: High Stiffness, and High Tensile Strength.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	High Stiffness; High Tensile Strength
<b>Filler/Reinforcement</b>	Glass Fiber, 50%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.61	g/cm <sup>3</sup>	ISO 1183
Viscosity Number	130	cm <sup>3</sup> /g	ISO 307
<b>Mechanical</b>			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	1.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	2.6	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	170	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	92.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	16500	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	10800	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	8.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	55	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	47	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	216	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	201	°C	ISO 75-2/A
<b>Flammable</b>			
Burning Rate	<100	mm/min	ISO 3795
<b>Additional Information</b>			
Water Absorption 23C/50RH	1.3	%	ISO 62

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time, (Desiccant Dryer)	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