

## Technical Data Sheet

### Schulamid XM GF 60 CN BLK 968001



Polyamide 66 + PA 6I/6T

#### Product Description

60% glassfiber reinforced semi-aromatic Polyamide Compound with excellent rigity and strength, also if conditioned. Able for Substitution Die Cast Metal.

<b>Processing Method</b>	Injection Molding
<b>Filler/Reinforcement</b>	Glass Fiber, 60%
<b>Resin ID</b>	PA 66 + PA 6I/6T GF 60

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.73	g/cm <sup>3</sup>	ISO 1183
Viscosity Number, (96% H <sub>2</sub> SO <sub>4</sub> (Sulphuric Acid))	120	cm <sup>3</sup> /g	ISO 307
<b>Mechanical</b>			
Tensile Strain at Break			
(5 mm/min)	2.4	%	ISO 527-2
(5 mm/min) - Conditioned	2.4	%	ISO 527-2
Flexural Modulus	19800	MPa	ISO 178
Tensile Stress at Break			
(5 mm/min)	260	MPa	ISO 527-2
(5 mm/min) - Conditioned	235	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min)	22000	MPa	ISO 527-1
(1 mm/min) - Conditioned	21000	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min)	395	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	15	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	14	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	13	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	95	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	85	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	85	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	230	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	210	°C	ISO 75-2/A

**Electrical**

Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+10	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+12	ohm	IEC 60093

**Flammable**

Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795

**UL Information**

Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time	3.0 to 6.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	80 to 120	°C