

Technical Data Sheet

**Schulamid 6 GF 15 HI H BLACK 968001**



Polyamide 6

**Product Description**

15% glass fiber reinforced PA 6, heat stabilized, impact modified

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Heat Stabilized; Impact Modified
<b>Additive</b>	Heat Stabilizer; Impact Modifier
<b>Filler/Reinforcement</b>	Glass Fiber, 15%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.20	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	4.2	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	7.5	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	100	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	60.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	5300	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	3800	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	16	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	71	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact Strength, (23 °C, Type 1, Notch A)	14	kJ/m <sup>2</sup>	ISO 180
Unnotched Izod Impact Strength, (23 °C, Type 1)	60	kJ/m <sup>2</sup>	ISO 180
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	150	MPa	ISO 2039-1
Ball Pressure Test, (90 °C)	Pass		IEC 60695-10-2
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	200	°C	ISO 306
(A (10N), 120 °C/h)	210	°C	ISO 306

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	200	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	190	°C	ISO 75-2/A

**Electrical**

Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	10000000000	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	450	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	1000000000000	ohm	IEC 60093

**Flammable**

Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Glow Wire Flammability Index	650	°C	IEC 60695-2-12

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