

Technical Data Sheet

**Schulamid 66 GF25 H BLK968001**



Polyamide 66

**Product Description**

25% glass fiber reinforced, heat stabilized Polyamide 66

**Processing Method** Injection Molding

**Attribute** Good Heat Aging Resistance; Medium Viscosity; Oil Resistant

**Filler/Reinforcement** Glass Fiber, 25%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.32	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)	3.0	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	7.0	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	160	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	105	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	8600	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	5500	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	9.0	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	14	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	60	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	50	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	90	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	200	MPa	ISO 2039-1
Ball Pressure Test, (120 °C)	Pass		IEC 60695-10-2
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	>250	°C	ISO 306
(A (10N), 50 °C/h)	>250	°C	ISO 306

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	>250 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	242 °C	ISO 75-2/A
<b>RTI Elec</b>		
(1.5 mm)	120 °C	UL 746B
(3.0 mm)	120 °C	UL 746B
(0.75 mm)	120 °C	UL 746B
<b>RTI Imp</b>		
(1.5 mm)	105 °C	UL 746B
(3.0 mm)	115 °C	UL 746B
(0.75 mm)	100 °C	UL 746B
<b>RTI Str</b>		
(1.5 mm)	120 °C	UL 746B
(3.0 mm)	130 °C	UL 746B
(0.75 mm)	110 °C	UL 746B

**Electrical**

Volume Resistivity	>1.0E+13 ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+10 ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	450 V	IEC 60112
Surface Resistivity	>1.0E+15 ohm	IEC 60093
- Conditioned	>1.0E+12 ohm	IEC 60093

**Flammable**

<b>Burning Rate</b>		
(2.00 mm)	30 mm/min	ISO 3795
(2.00 mm)	30 mm/min	FMVSS 302
<b>Glow Wire Flammability Index</b>		
(1.5 mm)	650 °C	IEC 60695-2-12
(3.0 mm)	650 °C	IEC 60695-2-12

**Additional Information**

Water Absorption 23C/50RH	1.9 %	ISO 62
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**UL Information**

<b>Flammability Classification</b>		
(0.75 mm)	HB	IEC 60695-11-10, -20
(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	280 to 300	°C
Mold Temperature	60 to 120	°C