

## Technical Data Sheet

### Schulamid 66 CF20 H BLK968001



Polyamide 66

#### Product Description

20% carbon fiber reinforced Polyamide 66, available with different kinds of heat stabilizations systems

**Processing Method** Injection Molding

**Filler/Reinforcement** Carbon Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.22	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)	2.8	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	5.3	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	15000	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	220	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	150	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	16600	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	10100	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.0%)	330	MPa	ISO 178
(2.0 mm/min, 3.0%)	340	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.5	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	12	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	70	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>Thermal</b>			
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	250	°C	ISO 75-2/A
<b>Electrical</b>			

Volume Resistivity	100	ohm*m	IEC 62631-3-1
Surface Resistivity	1000	ohm	IEC 60093
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
<b>UL Information</b>			
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 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