

## Technical Data Sheet

**Schulamid 66 GF35 H EP NAT**

Polyamide 66

**Product Description**

35% glass fiber reinforced, heat stabilized Polyamide 66 with excellent stiffness and impact strength.

**Processing Method** Injection Molding**Filler/Reinforcement** Glass Fiber, 35%

<b>Typical Properties</b>	<b>Nominal Value</b>	<b>Units</b>	<b>Test Method</b>
<b>Physical</b>			
Density, (Method A)	1.41	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	2.8	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	4.5	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	200	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	133	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	11000	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	7900	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	14	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	17	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A) - Conditioned	7.8	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	87	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	73	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	86	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise) - Conditioned	69	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	>250	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	245	°C	ISO 75-2/A
<b>Flammable</b>			

Burning Rate			
(2.00 mm)	30	mm/min	ISO 3795
(2.00 mm)	30	mm/min	FMVSS 302

<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