

## Technical Data Sheet

**Schulamid 6 MT30 NAT**

Polyamide 6

**Product Description**

30% talc filled Polyamide 6

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Good Surface Finish; Low Warpage; Medium Viscosity; Oil Resistant
<b>Filler/Reinforcement</b>	Talc, 30%
<b>Resin ID</b>	PA6-T30

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.36	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	15	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	73.0	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	45.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	6500	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	3300	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	8.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	40	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	30	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	60	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	200	°C	ISO 306
(A (10N), 50 °C/h)	215	°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)	100 °C	ISO 75-2/A
<b>Flammable</b>		
Burning Rate		
(2.00 mm)	48 mm/min	ISO 3795
(2.00 mm)	48 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	250 to 280	°C
Mold Temperature	60 to 100	°C