

## Schulamid 6 GF30 HI K1753 BLK968001

Polyamide 6

### Product Description

30% glass fiber reinforced high impact Polyamid 6

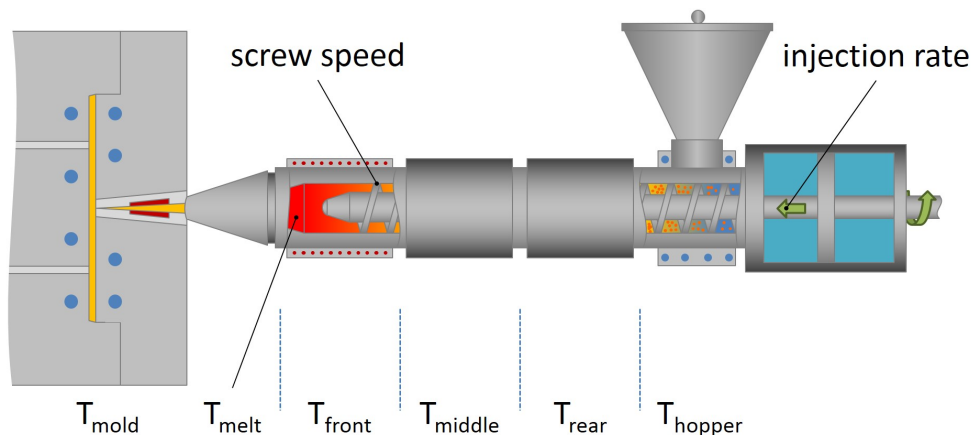
### Regulatory Status

For regulatory compliance information, see *Schulamid 6 GF30 HI K1753 BLK968001* [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Good Chemical Resistance; Good Flow; Good Toughness; High Impact Resistance; Oil Resistant
<b>Filler/Reinforcement</b>	Glass Fiber, 30%
<b>Resin ID</b>	PA6I GF30

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Density, (Method A)	1.28	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Modulus			
(1 mm/min, Type 1A)	8000	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	4800	MPa	ISO 527-1
Tensile Stress at Break			
(Type 1A, 5 mm/min)	135	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	90.0	MPa	ISO 527-2
Tensile Strain at Break			
(Type 1A, 5 mm/min)	5.0	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	6.5	%	ISO 527-2
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	22	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	40	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	14	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	85	kJ/m <sup>2</sup>	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	80	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness			
(H 358/30)	175	MPa	ISO 2039-1
(H 358/30) - Conditioned	115	MPa	ISO 2039-1
<b>Thermal</b>			

<b>Vicat Softening Temperature</b>		
(A (10N), 50 °C/h)	210 °C	ISO 306
(B (50N), 50 °C/h)	200 °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
<b>Electrical</b>		
Surface Resistivity	>1.0E+15 ohm	IEC 60093
- Conditioned	>1.0E+12 ohm	IEC 60093
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)	550 V	IEC 60112
<b>Flammable</b>		
Burning Rate		
(2.00 mm)	45 mm/min	FMVSS 302
(2.00 mm)	45 mm/min	ISO 3795
<b>Additional Information</b>		
Water Absorption 23C/50RH	1.9 %	ISO 62
<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	250 to 280	°C
Mold Temperature	60 to 100	°C

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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