

Technical Data Sheet

# Schulamid 6 GB 30 LS

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

**Product Description**  
30% glass beads reinforced Polyamide 6 with higher stiffness and dimension stability and UV-stabilizer

General	
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PAM 6 GB 30

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.35 g/cm <sup>3</sup>	1.35 g/cm <sup>3</sup>	ISO 1183/A
Viscosity Number (H2so4 (sulphuric Acid))	140 cm <sup>3</sup> /g	140 cm <sup>3</sup> /g	ISO 307

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	595000 psi	4100 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	8990 psi	62.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	4.5 %	4.5 %	ISO 527-2/1A/5
Flexural Modulus <sup>1</sup>	508000 psi	3500 MPa	ISO 178
Flexural Stress <sup>1</sup>			ISO 178
6.0% Strain	15200 psi	105 MPa	
3.5% Strain	13500 psi	93.0 MPa	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.4 ft·lb/in <sup>2</sup>	3.0 kJ/m <sup>2</sup>	
73°F (23°C)	1.9 ft·lb/in <sup>2</sup>	4.0 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	13 ft·lb/in <sup>2</sup>	28 kJ/m <sup>2</sup>	
73°F (23°C)	19 ft·lb/in <sup>2</sup>	40 kJ/m <sup>2</sup>	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 961/30)	27100 psi	187 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	358 °F	181 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	149 °F	65.0 °C	ISO 75-2/Af
Vicat Softening Temperature	387 °F	197 °C	ISO 306/B50

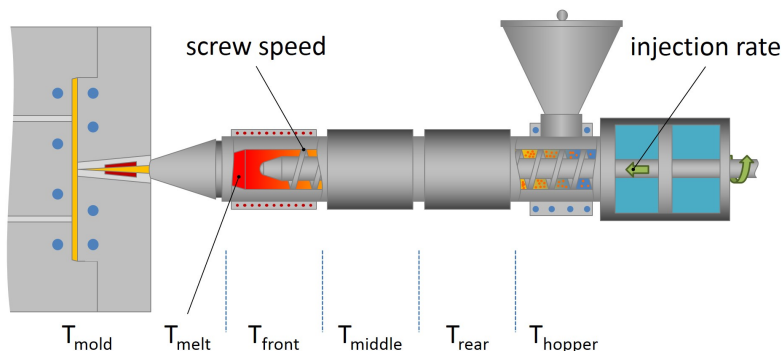
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302

**Additional Information**  
 1.) Not for use in food contact applications  
 2.) Not for use in medical or pharmaceutical applications

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

**Notes**

<sup>1</sup> 0.079 in/min (2.0 mm/min)

**Notes**

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