

# Schulamid 612/X GB7 HI U SILVER 96.7914

Polyamide 612  
LyondellBasell Industries  
Engineering Plastics

## Product Description

7% glass bead reinforced Polyamide 612, impact modified, UV stabilized, specialized for mold-in-color exterior applications

## General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe
Filler / Reinforcement	• Glass Bead, 7.0% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.13 g/cm <sup>3</sup>	1.13 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	35 cm <sup>3</sup> /10min	35 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	406000 psi	2800 MPa	ISO 527-1/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	8700 psi	60.0 MPa	
Break	7980 psi	55.0 MPa	
Tensile Strain (Yield)	4.5 %	4.5 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	8.5 %	8.5 %	ISO 527-2/1A/50
Flexural Modulus <sup>1</sup> (73°F (23°C))	406000 psi	2800 MPa	ISO 178
Flexural Stress <sup>1</sup>			ISO 178
6.0% Strain, 73°F (23°C)	12300 psi	85.0 MPa	
3.5% Strain, 73°F (23°C)	10900 psi	75.0 MPa	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.1 ft·lb/in <sup>2</sup>	4.5 kJ/m <sup>2</sup>	
73°F (23°C)	2.6 ft·lb/in <sup>2</sup>	5.5 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	320 °F	160 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	140 °F	60.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	329 °F	165 °C	ISO 306/B50
--	419 °F	215 °C	ISO 306/A50

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
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.6 mm)	HB	HB	
0.13 in (3.2 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1250 °F	675 °C	
0.12 in (3.0 mm)	1250 °F	675 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1290 °F	700 °C	
0.12 in (3.0 mm)	1290 °F	700 °C	

## **Schulamid 612/X GB7 HI U SILVER 96.7914**

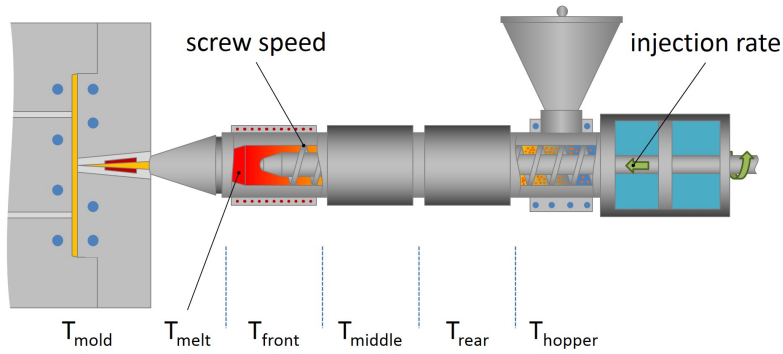
Polyamide 612  
LyondellBasell Industries  
Engineering Plastics

### **Additional Information**

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

# Schulamid 612/X GB7 HI U SILVER 96.7914

Polyamide 612  
 LyondellBasell Industries  
 Engineering Plastics



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	464 to 536 °F	240 to 280 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

# Schulamid 612/X GB7 HI U SILVER 96.7914

Polyamide 612  
LyondellBasell Industries  
Engineering Plastics

## 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.

## 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.

## Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affect the quality of this product
- Keep material completely dry for good processing

## Company Information

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

© LyondellBasell Industries Holdings, B.V. 2023

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.