Technical Data Sheet

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	
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/cm³	1.13 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (275°c/2.16 Kg)	35 cm³/10min	35 cm³/10min	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 [1] (73°f (23°c))	406000 psi	2800 MPa	ISO 178
Flexural Stress [1]			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/in²	4.5 kJ/m²	
73°f (23°c)	2.6 ft·lb/in²	5.5 kJ/m²	
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	

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Additional Information

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

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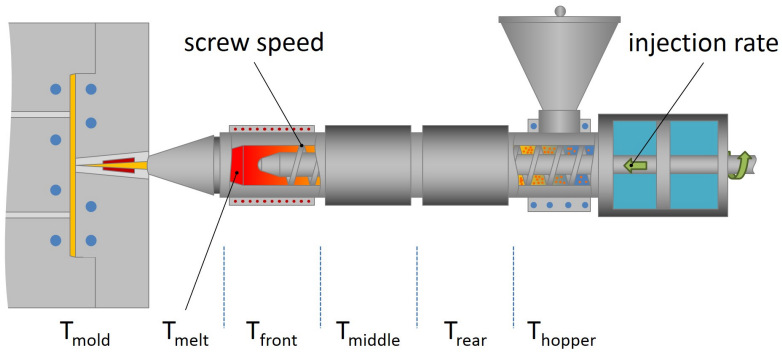

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

[1] 0.079 in/min (2.0 mm/min)

Notes

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