

Technical Data Sheet

**Schulamid 612 HV H 5003**

Polyamide 612
LyondellBasell Industries
Engineering Plastics

Product Description

Impact modified Polyamide 612, heatstabilized for injection molding

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East	• Europe
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA612	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (245°C/5.0 kg)	8.5	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	290000 (2000)	133000 (920)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	7250 (50.0)	5370 (37.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	4.8	18	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	50	220	%	ISO 527-2/1A/50
Flexural Modulus ¹	218000 (1500)	--	psi (MPa)	ISO 178
Flexural Stress ¹				ISO 178
6.7% Strain	8700 (60.0)	--	psi (MPa)	
3.5% Strain	6820 (47.0)	--	psi (MPa)	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°F (-40°C)	7.1 (15)	--	ft·lb/in ² (kJ/m ²)	
-22°F (-30°C)	8.1 (17)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	36 (75)	50 (110)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°F (-40°C)	No Break	--		
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	246 (119)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	127 (53.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	311 (155)	--	°F (°C)	ISO 306/B50
--	401 (205)	--	°F (°C)	ISO 306/A50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (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	Dry (English)	Dry (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	446 to 518 °F	230 to 270 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

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Notes

¹ 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 affects on 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/>.

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