

Technical Data Sheet

**Schulatec PA6 HC 7150**

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

High heat conductivity PA6 with improved stiffness and strength.

General

Material Status	• Experimental: Active
Availability	• Europe
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.80 g/cm ³	1.80 g/cm ³	ISO 1183/A
Viscosity Number	125 cm ³ /g	125 cm ³ /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.81E+6 psi	12500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	17400 psi	120 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.9 %	1.9 %	ISO 527-2/1A/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.7 ft·lb/in ²	3.5 kJ/m ²	
73°F (23°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	11 ft·lb/in ²	24 kJ/m ²	
73°F (23°C)	14 ft·lb/in ²	30 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	419 °F	215 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2/Af
Thermal Conductivity	8.3 Btu·in/hr/ft ² /°F	1.2 W/m/K	ISO 8302
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	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Injection Notes

At short down times the cylinder has to be emptied and purged with PA 6 or PA6 GF. Afterwards also purge the hot runner with PA 6 or PA 6 GF.

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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