Technical Data Sheet

LyondellBasell

Network Polymers San 330

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• High Flow
Appearance	• Natural Color
Forms	• Granules
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1]			ASTM D1238
200°C/5.0 kg	8.0 g/10 min	8.0 g/10 min	
230°C/3.8 kg	31 g/10 min	31 g/10 min	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [2] (Yield)	10000 psi	68.9 MPa	ASTM D638
Flexural Modulus - Tangent [3]	500000 psi	3450 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	0.40 ft·lb/in	21 J/m	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-Scale)	120	120	ASTM D785
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	196 °F	91.1 °C	
Vicat Softening Temperature	212 °F	100 °C	ASTM D1525 [4]
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94

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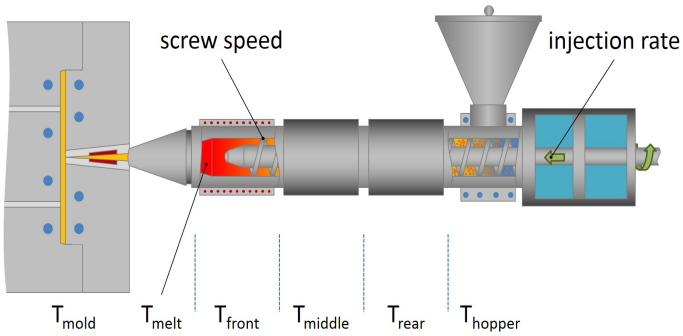

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 180 °F	71 to 82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Shot Size	40 to 75 %	40 to 75 %
Rear Temperature	320 to 360 °F	160 to 182 °C
Middle Temperature	360 to 430 °F	182 to 221 °C
Front Temperature	380 to 450 °F	193 to 232 °C
Nozzle Temperature	380 to 450 °F	193 to 232 °C
Processing (Melt) Temp	380 to 420 °F	193 to 216 °C
Mold Temperature	80 to 170 °F	27 to 77 °C
Injection Pressure	60.0 to 1100 psi	0.414 to 7.58 MPa
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	75.0 to 150 psi	0.517 to 1.03 MPa
Clamp Tonnage	2.0 to 3.0 tons/in²	2.8 to 4.1 kN/cm²

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Notes

[1] Procedure A

[2] 2.0 in/min (51 mm/min)

[3] 0.050 in/min (1.3 mm/min)

[4] Loading 1 (10 N)

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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