Technical Data Sheet

LyondellBasell

Network Polymers Pc 1029

Polycarbonate
LyondellBasell Industries
Engineering Plastics

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Food Contact Acceptable
UL File Number	• E150937
Appearance	• Natural Color

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.20	1.20 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (300°C/1.2 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Water Absorption (24 hr, 73°F (23°C))	0.15 %	0.15 %	ASTM D570
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [2] (Yield)	9000 psi	62.1 MPa	ASTM D638
Flexural Modulus [3]	345000 psi	2380 MPa	ASTM D790B
Flexural Strength [3]	13000 psi	89.6 MPa	ASTM D790B
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (0.125 in (3.18 mm))	12 ft·lb/in	640 J/m	ASTM D256A
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)	260 °F	127 °C	
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm), ALL)	V-2	V-2	UL 94

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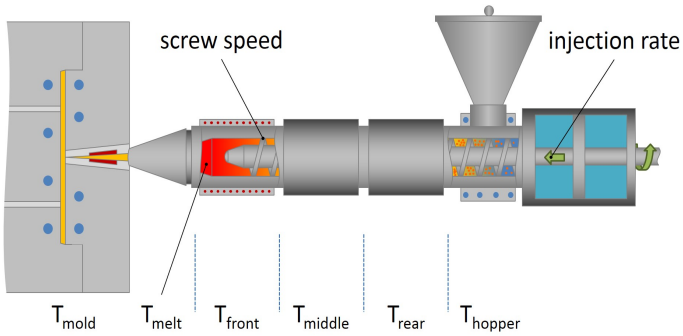

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time - Desiccant Dryer	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Suggested Shot Size	40 to 60 %	40 to 60 %
Rear Temperature	500 to 536 °F	260 to 280 °C
Middle Temperature	518 to 563 °F	270 to 295 °C
Front Temperature	536 to 581 °F	280 to 305 °C
Nozzle Temperature	518 to 572 °F	270 to 300 °C
Processing (Melt) Temp	536 to 581 °F	280 to 305 °C
Mold Temperature	176 to 212 °F	80 to 100 °C
Back Pressure	43.5 to 102 psi	0.300 to 0.700 MPa
Screw Speed	40 to 70 rpm	40 to 70 rpm
Vent Depth	9.8E-4 to 3.0E-3 in	0.025 to 0.076 mm

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Notes

[1] Procedure A

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

[3] Method I (3 point load), 0.050 in/min (1.3 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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