Technical Data Sheet

Network Polymers San 278

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

General	
Material Status	• Commercial: Active
Availability	• North America
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.08	1.08 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	7.5 g/10 min	7.5 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [1] (Yield)	10400 psi	71.7 MPa	ASTM D638
Tensile Elongation (Yield)	4.0 %	4.0 %	ASTM D638
Flexural Modulus - Tangent [2]	526000 psi	3630 MPa	ASTM D790
Flexural Strength (Yield)	15400 psi	106 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)	76	76	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)	192 °F	88.9 °C	
Vicat Softening Temperature	230 °F	110 °C	ASTM D1525

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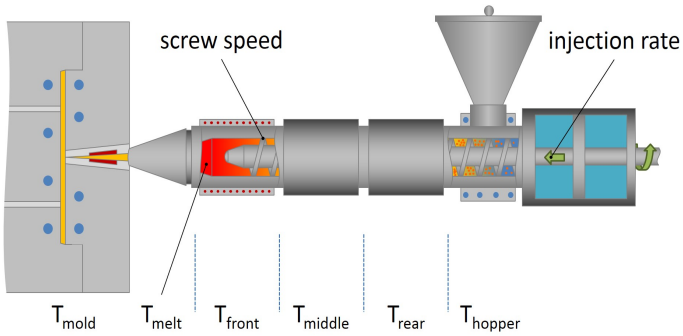

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	428 to 500 °F	220 to 260 °C
Middle Temperature	428 to 500 °F	220 to 260 °C
Front Temperature	428 to 500 °F	220 to 260 °C
Mold Temperature	104 to 158 °F	40 to 70 °C
Injection Pressure	9950 to 28400 psi	68.6 to 196 MPa

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Notes

[1] 2.0 in/min (51 mm/min)

[2] 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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