Technical Data Sheet

Network Polymers San 300

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

General	
Appearance	• Natural Color
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)	8600 psi	59.3 MPa	ASTM D638
Flexural Modulus - Tangent [3]	460000 psi	3170 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)	123	123	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)	206 °F	96.7 °C	
Vicat Softening Temperature	212 °F	100 °C	ASTM D1525 [4]

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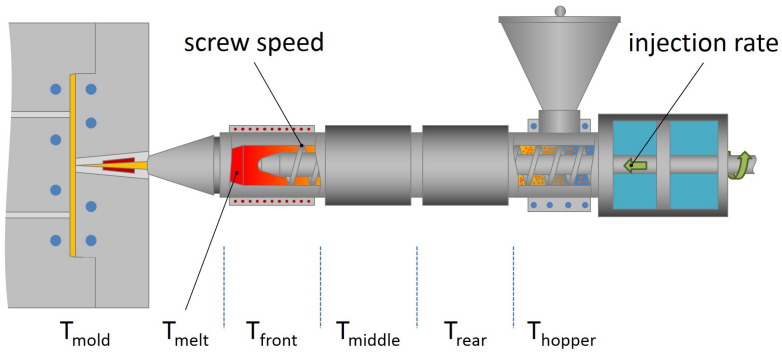

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 180 °F	71 to 82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Shot Size	40 to 75 %	40 to 75 %
Rear Temperature	320 to 360 °F	160 to 182 °C
Middle Temperature	360 to 430 °F	182 to 221 °C
Front Temperature	380 to 450 °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

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.