

Technical Data Sheet

Network Polymers San 330

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

General	
Features	• High Flow
Agency Ratings	• FDA 21 CFR 181.32(a)(3)(ii)
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/cm ³	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
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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/in ²	2.8 to 4.1 kN/cm ²

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.