Technical Data Sheet

Network Polymers San 278

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

General		
Agency Ratings	• FDA 21 CFR 181.32	• FDA 21 CFR 181.32(a)(3)(ii)
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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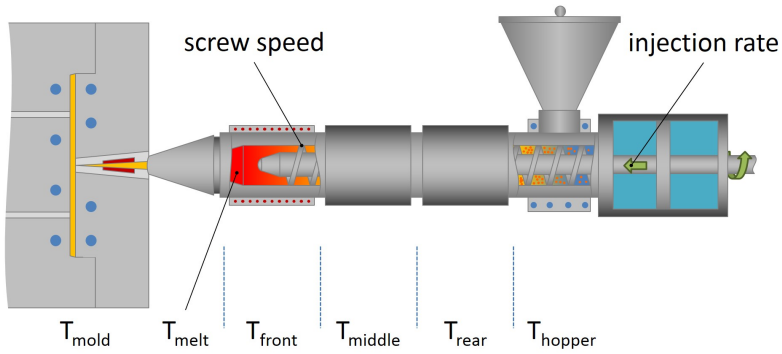

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	428 to 500 °F	220 to 260 °C
Middle Temperature	428 to 500 °F	220 to 260 °C
Front Temperature	428 to 500 °F	220 to 260 °C
Mold Temperature	104 to 158 °F	40 to 70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

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.