

# Network Polymers SAN 300

Styrene Acrylonitrile

Network Polymers, Inc.

## Message:

Network Polymers SAN 300 is a Styrene Acrylonitrile (SAN) product. It can be processed by injection molding and is available in North America. Typical application: Food Contact Applications. Primary characteristic: flame rated.

General Information			
Agency Ratings	FDA 21 CFR 181.32(a)(3)(ii)		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup>			ASTM D1238
200°C/5.0 kg	8.0	g/10 min	
230°C/3.8 kg	31	g/10 min	
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	59.3	MPa	ASTM D638
Flexural Modulus - Tangent <sup>3</sup>	3170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	96.7	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525 <sup>4</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Shot Size	40 to 75	%	
Rear Temperature	160 to 182	°C	
Middle Temperature	182 to 221	°C	
Front Temperature	193 to 232	°C	
Nozzle Temperature	193 to 232	°C	
Processing (Melt) Temp	193 to 216	°C	
Mold Temperature	26.7 to 76.7	°C	
Injection Pressure	0.414 to 7.58	MPa	

Injection Rate	Moderate-Fast	
Back Pressure	0.517 to 1.03	MPa
Clamp Tonnage	2.8 to 4.1	kN/cm <sup>2</sup>

NOTE		
1.	Procedure A	
2.	51 mm/min	
3.	1.3 mm/min	
4.	Loading 1 (10 N)	

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