

Network Polymers SAN 330

Styrene Acrylonitrile
Network Polymers, Inc.

Message:

Network Polymers SAN 330 is a Styrene Acrylonitrile (SAN) product. It can be processed by injection molding and is available in North America. Typical application: Food Contact Applications.
Characteristics include:
Flame Rated
High Flow

General Information			
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	Unit	Test Method
Specific Gravity	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	
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)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	68.9	MPa	ASTM D638
Flexural Modulus - Tangent ³	3450	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)	91.1	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525 ⁴
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 ²

NOTE

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

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