

Network Polymers SAN 278

Styrene Acrylonitrile

Network Polymers, Inc.

Message:

Network Polymers SAN 278 is a Styrene Acrylonitrile (SAN) product. It can be processed by injection molding and is available in North America. Typical application: Food Contact Applications.

General Information			
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	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	76		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	71.7	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus - Tangent ²	3630	MPa	ASTM D790
Flexural Strength (Yield)	106	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)	88.9	°C	ASTM D648
Vicat Softening Temperature	110	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	220 to 260	°C	
Middle Temperature	220 to 260	°C	
Front Temperature	220 to 260	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	68.6 to 196	MPa	
NOTE			
1.	51 mm/min		

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