

# Jamplast JPSANC

Styrene Acrylonitrile

Jamplast, Inc.

Message:

Jamplast JPSANC SAN (styrene-acrylonitrile) resins are thermoplastic materials that provide an excellent balance of processability, clarity, chemical and heat resistance and stiffness. JPSANC SAN resins can be injection molded, extruded, blended with ABS or PVC, or used as color concentrate carriers. Jamplast SAN resins are primarily used for blending with ABS or rigid PVC resins and are also used as carriers for making color concentrates.

General Information			
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	25	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)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	3590	MPa	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Yield	55.6	MPa	
Break	55.6	MPa	
Tensile Elongation <sup>3</sup> (Break)	1.7	%	ASTM D638
Flexural Modulus	4270	MPa	ASTM D790
Flexural Strength (Yield)	99.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	101	°C	
0.45 MPa, Annealed	103	°C	
1.8 MPa, Unannealed	87.2	°C	
1.8 MPa, Annealed	101	°C	
Vicat Softening Temperature	113	°C	ASTM D1525
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Oxygen Index	20	%	ASTM D2863
Optical	Nominal Value	Unit	Test Method
Transmittance	93.9	%	ASTM D1003
Haze	0.40	%	ASTM D1003

Injection	Nominal Value	Unit
Drying Temperature	71.1 to 82.2	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.10	%
Suggested Max Regrind	20	%
Rear Temperature	149 to 204	°C
Front Temperature	191 to 232	°C
Mold Temperature	-1.11 to 87.8	°C
Injection Pressure	34.5 to 138	MPa
Back Pressure	0.0689 to 3.45	MPa
Clamp Tonnage	2.8 to 6.9	kN/cm <sup>2</sup>
Screw L/D Ratio	20.0:1.0 to 24.0:1.0	
Screw Compression Ratio	1.5:1.0 to 2.0:1.0	

#### NOTE

1. Type I, 51 mm/min
2. Type I, 51 mm/min
3. Type I, 51 mm/min

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#### Recommended distributors for this material

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