

Jamplast JPSANGI

Styrene Acrylonitrile

Jamplast, Inc.

Message:

Jamplast SAN resin is a general purpose SAN copolymer that offers an excellent balance of chemical resistance, physical properties, practical toughness, and processability for injection molded or extruded applications. This resin has undergone biocompatibility testing in accordance with USP XXIII Class VI guidelines. Applications include houseware, appliance, water filter housing and medical.

General Information			
Appearance	Light Blue		
	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	8.0	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 (3.18 mm)	3470	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.18 mm	71.7	MPa	
Break, 3.18 mm	71.7	MPa	
Tensile Elongation (Break, 3.18 mm)	2.5	%	ASTM D638
Flexural Modulus (3.18 mm)	3870	MPa	ASTM D790
Flexural Strength (Yield, 3.18 mm)	123	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, 3.18 mm	96.7	°C	
0.45 MPa, Annealed, 3.18 mm	102	°C	
1.8 MPa, Unannealed, 3.18 mm	85.6	°C	
1.8 MPa, Annealed, 3.18 mm	98.3	°C	
Vicat Softening Temperature	108	°C	ASTM D1525
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method

Flame Rating	HB		UL 94
Oxygen Index	19	%	ASTM D2863
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Haze	0.60	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	204	°C	
Middle Temperature	218	°C	
Front Temperature	232	°C	
Nozzle Temperature	227	°C	
Processing (Melt) Temp	199 to 232	°C	
Mold Temperature	26.7 to 48.9	°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 ²	
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		

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