

Generic SAN

Styrene Acrylonitrile
Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic SAN
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04 - 1.08	g/cm ³	ASTM D792
23°C	1.06 - 1.08	g/cm ³	ISO 1183
Apparent Density	0.65 - 0.69	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			
230°C/3.8 kg	4.3 - 26	g/10 min	ASTM D1238
220°C/10.0 kg	2.6 - 100	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	9.65 - 56.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.35 - 0.51	%	ASTM D955
23°C	0.35 - 0.50	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.29 - 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
23°C	83 - 125		ASTM D785
23°C	81 - 86		ISO 2039-2
Ball Indentation Hardness	155 - 175	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	3100 - 3710	MPa	ASTM D638
23°C	3460 - 4730	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	63.6 - 80.4	MPa	ASTM D638
Yield, 23°C	52.0 - 89.4	MPa	ISO 527-2
Fracture, 23°C	67.5 - 72.8	MPa	ASTM D638
Fracture, 23°C	52.0 - 75.3	MPa	ISO 527-2
23°C	60.8 - 96.5	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	2.5 - 4.1	%	ASTM D638
Fracture, 23°C	1.7 - 6.7	%	ASTM D638
Fracture, 23°C	1.9 - 7.7	%	ISO 527-2

Flexural Modulus			
23°C	3040 - 3790	MPa	ASTM D790
23°C	2600 - 3880	MPa	ISO 178
Flexural Strength			
23°C	87.0 - 120	MPa	ASTM D790
23°C	86.0 - 132	MPa	ISO 178
Yield, 23°C	88.1 - 124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.5 - 3.1	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	11 - 21	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	9.8 - 30	J/m	ASTM D256
23°C	1.5 - 3.0	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	17 - 370	J/m	ASTM D256
23°C	12 - 20	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	94.8 - 99.1	°C	ASTM D648
0.45 MPa, not annealed	82.0 - 103	°C	ISO 75-2/B
1.8 MPa, not annealed	80.8 - 97.4	°C	ASTM D648
1.8 MPa, not annealed	84.8 - 101	°C	ISO 75-2/A
1.8 MPa, annealed	97.0 - 103	°C	ASTM D648
1.8 MPa, annealed	86.0 - 102	°C	ISO 75-2/A
Vicat Softening Temperature			
--	93.8 - 110	°C	ASTM D1525
--	99.0 - 110	°C	ISO 306
CLTE - Flow			
--	5.9E-5 - 6.9E-5	cm/cm/°C	ASTM D696
--	5.0E-5 - 7.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value		Test Method
Dissipation Factor (23°C)	1.0E-4 - 8.0E-3		IEC 60250
Optical	Nominal Value	Unit	Test Method
Transmittance	86.2 - 89.3	%	ASTM D1003
Haze	0.40 - 2.8	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	73.9 - 85.0	°C	
Drying Time	1.9 - 4.0	hr	
Suggested Max Moisture	0.010 - 0.20	%	
Suggested Shot Size	58 - 60	%	
Rear Temperature	170 - 232	°C	
Middle Temperature	190 - 232	°C	

Front Temperature	198 - 231	°C
Nozzle Temperature	205 - 231	°C
Processing (Melt) Temp	204 - 250	°C
Mold Temperature	49.0 - 70.3	°C
Injection Pressure	4.00 - 126	MPa
Back Pressure	0.0862 - 44.1	MPa
Screw Speed	45 - 80	rpm
Clamp Tonnage	3.4 - 4.8	kN/cm ²

Injection instructions

This data represents typical values that have been calculated from all products classified as: Generic SANThis information is provided for comparative purposes only.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

