Generic SAN - Glass Fiber

Styrene Acrylonitrile

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.09 - 1.41	g/cm³	ASTM D792
23°C	1.15 - 1.36	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	2.8 - 12	g/10 min	ASTM D1238
Molding Shrinkage			
Flow: 23°C	0.10 - 0.30	%	ASTM D955
23°C	0.20 - 0.31	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.12 - 0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
23°C	89 - 125		ASTM D785
23°C	86 - 125		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
23°C	4580 - 13300	MPa	ASTM D638
23°C	5000 - 12500	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	88.1 - 111	MPa	ASTM D638
Yield, 23°C	98.9 - 125	MPa	ISO 527-2
Fracture, 23°C	94.8 - 111	MPa	ASTM D638
23°C	75.4 - 125	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	1.4 - 1.5	%	ASTM D638
Fracture, 23°C	1.9 - 3.0	%	ASTM D638
Fracture, 23°C	2.0 - 2.1	%	ISO 527-2
Flexural Modulus			
23°C	4440 - 12800	MPa	ASTM D790
23°C	5200 - 11100	MPa	ISO 178
Flexural Strength			
23°C	115 - 174	MPa	ASTM D790

23°C	139 - 200	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	3.9 - 5.4	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	5.0 - 10	kJ/m²	ISO 179
Notched Izod Impact (23°C)	26 - 61	J/m	ASTM D256
Unnotched Izod Impact (23°C)	210 - 270	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, not annealed	102 - 112	°C	ASTM D648
0.45 MPa, not annealed	101 - 105	°C	ISO 75-2/B
1.8 MPa, not annealed	95.6 - 111	°C	ASTM D648
1.8 MPa, not annealed	97.6 - 110	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105 - 111	°C	ASTM D1525
--	105 - 115	°C	ISO 306
CLTE - Flow	1.5E-5 - 3.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (23°C)	9.8E+15 - 1.0E+16	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	79.9 - 82.5	°C	
Drying Time	2.0 - 3.5	hr	
Rear Temperature	200 - 260	°C	
Middle Temperature	220 - 260	°C	
Front Temperature	225 - 282	°C	
Processing (Melt) Temp	239 - 260	°C	
Mold Temperature	58.3 - 70.6	°C	
Injection Pressure	85.9 - 86.4	MPa	
Back Pressure	0.150 - 15.0	MPa	
Screw Speed	45 - 90	rpm	
Injection instructions			

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Recommended distributors for this material

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