

Starex GR-5020 T

Styrene Acrylonitrile
SAMSUNG SDI CO., LTD.

Message:

Starex GR-5020 T is a Styrene Acrylonitrile (SAN) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-219793		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	14	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Ash Content			
--	20	%	ISO 3451
--	20	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6300	MPa	ASTM D638
--	6900	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	110	MPa	ASTM D638
Yield	119	MPa	ISO 527-2/50
Break ³	110	MPa	ASTM D638
Break	119	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	2.5	%	ASTM D638
Break	2.4	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	6900	MPa	ASTM D790
-- ⁶	7700	MPa	ISO 178
Flexural Strength			
-- ⁷	110	MPa	ASTM D790
-- ⁸	158	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	12	kJ/m ²	ISO 179/1eA
Notched Izod Impact			

23°C, 3.18 mm	51	J/m	ASTM D256
23°C, 6.35 mm	50	J/m	ASTM D256
23°C ¹⁰	6.9	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	104	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	105	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	102	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	101	°C	ISO 75-2/A
Vicat Softening Temperature			
--	106	°C	ISO 306/B50
--	110	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	180 to 190	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	220 to 230	°C	
Nozzle Temperature	230	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Pressure	93.2	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4 mm		

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