

Starex VG-4910

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex VG-4910 is an Acrylonitrile Butadiene Styrene (ABS) 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	E115797-219599		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955, ISO 2577
Ash Content	10	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3700	MPa	ASTM D638
Tensile Strength			
Yield ²	74.0	MPa	ASTM D638
Yield	85.0	MPa	ISO 527-2/50
Break ³	76.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	3.4	%	ASTM D638
Flexural Modulus			
-- ⁵	3600	MPa	ASTM D790
-- ⁶	4100	MPa	ISO 178
Flexural Strength			
-- ⁷	78.0	MPa	ASTM D790
-- ⁸	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	69	J/m	ASTM D256
23°C, 6.35 mm	120	J/m	ASTM D256
23°C ¹⁰	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	102	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	101	°C	ISO 75-2/B

0.45 MPa, Annealed	101	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	97.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	95.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	97.0	°C	ISO 75-2/A
Vicat Softening Temperature	99.0	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.60 mm	V-0		
	V-0		
2.50 mm	5VA		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	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	240	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	49.0 to 245	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		
10.	Thickness: 4 mm		

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