

Starex SL-0100

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex SL-0100 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-100082519		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow : 3.20 mm	0.40 to 0.70	%	ASTM D955, ISO 2577
Across Flow : 3.20 mm	0.40 to 0.70	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	97		ASTM D785
R-Scale	93		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1700	MPa	ASTM D638
--	1700	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	32.0	MPa	ASTM D638
Yield	35.0	MPa	ISO 527-2/50
Break ³	45.0	MPa	ASTM D638
Break	49.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	80	%	ASTM D638
Break	74	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1600	MPa	ASTM D790
-- ⁶	1800	MPa	ISO 178
Flexural Strength			
-- ⁷	44.0	MPa	ASTM D790
-- ⁸	57.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact			

23°C, 3.18 mm	69	J/m	ASTM D256
23°C, 6.35 mm	59	J/m	ASTM D256
23°C ¹⁰	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	96.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	92.0	°C	ISO 75-2/B
0.45 MPa, Annealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	85.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	77.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	100	°C	ISO 75-2/A
Vicat Softening Temperature			
--	97.0	°C	ISO 306/B50
--	100	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.20 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0	hr	
Desiccant Dryer	2.0	hr	
Suggested Max Moisture	< 0.070	%	
Rear Temperature	180 to 190	°C	
Middle Temperature	190	°C	
Front Temperature	200	°C	
Nozzle Temperature	220	°C	
Mold Temperature	40.0 to 50.0	°C	
Injection Pressure	49.0 to 206	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	30 to 70	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 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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