

Starex SR-0310

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex SR-0310 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	E115797-219568		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	40.0	MPa	ASTM D638
Yield	40.0	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	2100	MPa	ASTM D790
-- ³	2500	MPa	ISO 178
Flexural Strength			
-- ⁴	62.0	MPa	ASTM D790
-- ⁵	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	22	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C, 6.35 mm	180	J/m	ASTM D256
23°C ⁷	23	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	97.0	°C	ISO 75-2/B
0.45 MPa, Annealed	106	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	93.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	82.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	102	°C	ISO 75-2/A
Vicat Softening Temperature			
--	104	°C	ISO 306/B50
--	107	°C	ISO 306/B120

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm	HB	
3.00 mm	HB	
6.00 mm	HB	
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	160 to 180	°C
Middle Temperature	190 to 200	°C
Front Temperature	210 to 220	°C
Nozzle Temperature	230	°C
Mold Temperature	40.0 to 80.0	°C
Injection Pressure	49.0 to 147	MPa
Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 150	rpm
NOTE		
1.	5.0 mm/min	
2.	2.8 mm/min	
3.	2.0 mm/min	
4.	2.8 mm/min	
5.	2.0 mm/min	
6.	Thickness: 4 mm	
7.	Thickness: 4 mm	

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