

Starex LX-0971 S

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex LX-0971 S is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
--	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	16	g/10 min	ASTM D1238
220°C/10.0 kg	17	g/10 min	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 Modulus ¹	2200	MPa	ASTM D638
Tensile Strength			
Yield ²	50.0	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2
Break ³	33.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	16	%	ASTM D638
Flexural Modulus			
-- ⁵	2400	MPa	ASTM D790
--	2600	MPa	ISO 178
Flexural Strength			
-- ⁶	70.0	MPa	ASTM D790
--	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	24	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	210	J/m	
23°C, 6.35 mm	200	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	95.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	90.0	°C	ISO 75-2/B
0.45 MPa, Annealed	98.0	°C	ISO 75-2/B

1.8 MPa, Unannealed, 6.40 mm	88.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	77.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ISO 306/B50
--	99.0	°C	ISO 306/B120
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.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	2.8 mm/min		
6.	2.8 mm/min		
7.	Thickness: 4 mm		

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