

Starex LX-0970 LS

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex LX-0970 LS 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, ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	20	g/10 min	ASTM D1238
--	19	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	43.0	MPa	ASTM D638
Yield	49.0	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	2300	MPa	ASTM D790
--	2400	MPa	ISO 178
Flexural Strength			
-- ³	69.0	MPa	ASTM D790
--	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	15	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	170	J/m	ASTM D256
23°C, 6.35 mm	160	J/m	ASTM D256
23°C ⁵	16	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	94.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	89.0	°C	ISO 75-2/B
0.45 MPa, Annealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	89.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	76.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	94.0	°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. 2.8 mm/min
3. 2.8 mm/min
4. Thickness 4 mm
5. Thickness: 4 mm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

