

Starex LX-0981M

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex LX-0981M is an acrylonitrile butadiene styrene (ABS) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: electrical appliances.

General Information			
UL YellowCard	E115797-101025557		
Features	General		
Uses	Electrical appliances		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.06	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
200°C/5.0 kg	5.0	g/10 min	ASTM D1238, ISO 1133
220°C/10.0 kg	56	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.20 - 0.30	%	ASTM D955
Transverse flow: 3.20mm	0.20 - 0.30	%	ASTM D955
Lateral flow: 3.20mm	0.20 - 0.30	%	ISO 2577
Traffic: 3.20mm	0.20 - 0.30	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	109		ASTM D785
R scale	111		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2200	MPa	ASTM D638
--	2300	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	48.0	MPa	ASTM D638
Yield	490	MPa	ISO 527-2/50
Fracture ³	36.0	MPa	ASTM D638
Fracture	37.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	10	%	ASTM D638
Fracture	16	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2100	MPa	ASTM D790
-- ⁶	21700	MPa	ISO 178

Flexural Strength			
-- ⁷	64.0	MPa	ASTM D790
-- ⁸	650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	180	J/m	ASTM D256
23°C, 6.35 mm	180	J/m	ASTM D256
23°C ¹⁰	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	89.0	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	79.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	82.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	73.0	°C	ISO 75-2/A
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: 4mm		
10.	Thickness: 4mm		

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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

