

Starex LM-0990

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex LM-0990 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/electronic applications. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E115797-101368512		
Features	General		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.70 - 0.80	%	ASTM D955
Transverse flow: 3.20mm	0.69	%	ASTM D955
Traffic: 3.20mm	0.76	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	107		ASTM D785
R scale	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1700	MPa	ASTM D638
--	2240	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	48.0	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2/50
Fracture ³	29.0	MPa	ASTM D638
Fracture	35.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	20	%	ASTM D638
Fracture	14	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2240	MPa	ISO 178
Flexural Strength			
-- ⁷	60.0	MPa	ASTM D790
-- ⁸	70.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	12	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	140	J/m	ASTM D256
23°C, 6.35 mm	120	J/m	ASTM D256
23°C ¹⁰	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C, 3.18 mm)	650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	82.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	81.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	88.0	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating (3.0 mm)	HB	UL 94	

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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