

Starex BM-0320 E

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex BM-0320 E 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: architectural applications. The main characteristics are: heat resistance.

General Information			
Features	Good Heat Resistance		
Uses	Architectural application field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	3.3	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.35 - 0.45	%	ASTM D955
Transverse flow: 3.20mm	0.45 - 0.55	%	ASTM D955
Lateral flow: 3.20mm	0.45 - 0.55	%	ISO 2577
Traffic: 3.20mm	0.35 - 0.45	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	105		ASTM D785
R scale	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2100	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	44.0	MPa	ASTM D638
Yield	44.0	MPa	ISO 527-2/50
Fracture ³	34.0	MPa	ASTM D638
Fracture	35.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	15	%	ASTM D638
Fracture	15	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2300	MPa	ISO 178
Flexural Strength			
-- ⁷	61.0	MPa	ASTM D790
-- ⁸	70.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C, 6.35 mm	150	J/m	ASTM D256
23°C ¹⁰	20	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	107	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	98.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	97.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	86.0	°C	ISO 75-2/A
Vicat Softening Temperature	108	°C	ISO 306/B50
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

