

Starex SH-0160

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex SH-0160 is an acrylonitrile butadiene styrene (ABS) product. It can be processed by extrusion and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: architectural applications.

General Information			
UL YellowCard	E115797-101246703		
Uses	Building materials		
	Architectural application field		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.04	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.40 - 0.60	%	ASTM D955
Traffic: 3.20mm	0.40 - 0.60	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	101		ASTM D785
R scale	101		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	35.0	MPa	ASTM D638
Yield	35.0	MPa	ISO 527-2/50
Tensile Elongation ² (Break)	80	%	ASTM D638
Flexural Modulus			
-- ³	180	MPa	ASTM D790
-- ⁴	1800	MPa	ISO 178
Flexural Strength			
-- ⁵	54.0	MPa	ASTM D790
-- ⁶	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	27	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	440	J/m	ASTM D256
23°C, 6.35 mm	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	90.0	°C	ASTM D648
	98.0		
Vicat Softening Temperature	99.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
--	80	°C	
Hot air dryer	80	°C	
Drying Time			
--	2.0 - 4.0	hr	
Hot air dryer	2.0 - 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	160 - 180	°C	
Middle Temperature	190 - 200	°C	
Front Temperature	210 - 220	°C	
Nozzle Temperature	230	°C	
Mold Temperature	40 - 80	°C	
Injection Pressure	49.0 - 147	MPa	
Back Pressure	0.490 - 1.96	MPa	
Screw Speed	50 - 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	2.8 mm/min		
4.	5.0 mm/min		
5.	2.8 mm/min		
6.	5.0 mm/min		
7.	Thickness: 4mm		

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