

Starex SV-0167 F

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex SV-0167 F 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. The application fields of Starex SV-0167 F include furniture and construction applications. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E115797-219577		
Uses	Furniture		
	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)	4.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.55 - 0.67	%	ASTM D955
Transverse flow: 3.20mm	0.58 - 0.71	%	ASTM D955
Lateral flow: 3.20mm	0.58 - 0.71	%	ISO 2577
Traffic: 3.20mm	0.55 - 0.67	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	101		ASTM D785
R scale	98		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1900	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	35.0	MPa	ISO 527-2/50
Fracture ³	31.0	MPa	ASTM D638
Fracture	34.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	50	%	ASTM D638
Fracture	12	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1900	MPa	ASTM D790

-- 6	2500	MPa	ISO 178
Flexural Strength			
-- 7	57.0	MPa	ASTM D790
-- 8	58.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	32	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	390	J/m	ASTM D256
23°C, 6.35 mm	320	J/m	ASTM D256
23°C ¹⁰	30	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	96.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	92.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	81.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.5 mm	HB		UL 94
3.0 mm	HB		UL 94
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.	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

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