

Starex BF-0679P

Methyl Methacrylate / ABS

SAMSUNG SDI CO., LTD.

Message:

Scratch resistant material that is used for the exterior material of flat TV

General Information			
UL YellowCard	E115797-100158750		
Features	High Scratch Resistance		
Uses	Electrical Housing		
	Household Goods		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.13	g/cm ³	ASTM D792
--	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	13	g/10 min	ASTM D1238
220°C/10.0 kg	12	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.40	%	
Across Flow : 3.20 mm	0.50	%	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	116		ASTM D785
R-Scale	119		ISO 2039-2
Pencil Hardness ¹	2H		JIS K5401

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	2500	MPa	ASTM D638
--	2700	MPa	ISO 527-2/5
Tensile Strength			
Yield ³	49.0	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2/5
Break ⁴	40.0	MPa	ASTM D638
Break	42.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁵	18	%	ASTM D638
Break	20	%	ISO 527-2/5
Flexural Modulus			

-- ⁶	2400	MPa	ASTM D790
-- ⁷	2400	MPa	ISO 178
Flexural Strength			
-- ⁸	72.0	MPa	ASTM D790
-- ⁹	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹⁰ (23°C)	7.3	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	92	J/m	ASTM D256
23°C, 6.35 mm	79	J/m	ASTM D256
23°C ¹¹	7.4	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	94.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	88.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	85.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	76.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ISO 306/B50
--	102	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature			
--	85.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	190 to 200	°C	
Middle Temperature	210 to 220	°C	
Front Temperature	230 to 240	°C	
Nozzle Temperature	240	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	49.0 to 245	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	Condition: 500g		

2.	5.0 mm/min
3.	5.0 mm/min
4.	5.0 mm/min
5.	5.0 mm/min
6.	2.8 mm/min
7.	2.0 mm/min
8.	2.8 mm/min
9.	2.0 mm/min
10.	Thickness: 4 mm
11.	Thickness: 4 mm

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Recommended distributors for this material

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