

Starex VE-0858

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Flame-retardant ABS material with excellent weather resistance that is applied to the exterior material of OA devices such as monitor, printer, fax machine, duplicator etc.

General Information	
UL YellowCard	E115797-219593
Features	Flame Retardant
	Good Weather Resistance
Uses	Electrical Housing
	Electrical/Electronic Applications

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/5.0 kg	3.5	g/10 min	ASTM D1238
200°C/5.0 kg	3.5	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.30 to 0.40	%	
Across Flow : 3.20 mm	0.30 to 0.40	%	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	92		ASTM D785
R-Scale	94		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1600	MPa	ASTM D638
--	1970	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2/5
Break ³	26.0	MPa	ASTM D638
Break	32.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	23	%	ASTM D638
Break	9.0	%	ISO 527-2/5
Flexural Modulus			

-- ⁵	1900	MPa	ASTM D790
-- ⁶	2200	MPa	ISO 178
Flexural Strength			
-- ⁷	54.0	MPa	ASTM D790
-- ⁸	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	30	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	210	J/m	ASTM D256
23°C, 6.35 mm	200	J/m	ASTM D256
23°C ¹⁰	27	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	100	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	87.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	70.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	75.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	90.0	°C	ISO 306/B50
--	91.0	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.10 mm	V-0		
	V-0		
2.50 mm	5VA		
	V-0		
3.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°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	160 to 180	°C	
Middle Temperature	190 to 200	°C	

Front Temperature	210 to 220	°C
Nozzle Temperature	220	°C
Mold Temperature	40.0 to 80.0	°C
Injection Pressure	49.0 to 147	MPa
Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 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: 4 mm
10.	Thickness: 4 mm

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