

Starex VE-0860SE

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Flame-retardant ABS material that can be applied to the exterior material of adaptor, charger etc.

General Information			
UL YellowCard	E115797-219595		
Features	Flame Retardant		
Uses	Electrical Housing		
	Electrical/Electronic Applications		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	9.4	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.60	%	ASTM D955, ISO 2577

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	100		ASTM D785
R-Scale	103		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1900	MPa	ASTM D638
--	2200	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2/50
Break ³	29.0	MPa	ASTM D638
Break	36.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	23	%	ASTM D638
Break	11	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	59.0	MPa	ASTM D790
-- ⁸	67.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
--------	---------------	------	-------------

Charpy Notched Impact Strength ⁹ (23°C)	21	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	210	J/m	ASTM D256
23°C, 6.35 mm	170	J/m	ASTM D256
23°C ¹⁰	23	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	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	90.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	84.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	102	°C	ISO 306/B50
--	104	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.50 mm	V-0		
	V-0		
2.50 to 2.70 mm	5VB		
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

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

