

Starex VE-0855YS

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Flame-retardant ABS material that can be applied to the exterior material of monitor

General Information			
UL YellowCard	E115797-219590		
Features	Flame Retardant		
Uses	Electrical Housing		
	Electrical/Electronic Applications		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.20 to 0.60	%	
Across Flow : 3.20 mm	0.20 to 0.60	%	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785, ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	29.0	MPa	ASTM D638
Yield	35.0	MPa	ISO 527-2/5
Flexural Modulus			
-- ²	1600	MPa	ASTM D790
-- ³	1940	MPa	ISO 178
Flexural Strength			
-- ⁴	47.0	MPa	ASTM D790
-- ⁵	54.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 6.35 mm	130	J/m	ASTM D256
23°C ⁷	13	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed, 4.00 mm)	73.0	°C	ISO 75-2/A
Vicat Softening Temperature	87.0	°C	ISO 306/B50

Flammability	Nominal Value	Test Method
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Flame Rating (2.50 mm)	5VB	UL 94
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.	2.8 mm/min	
3.	2.0 mm/min	
4.	2.8 mm/min	
5.	2.0 mm/min	
6.	Thickness: 4 mm	
7.	Thickness: 4 mm	

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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



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