

Starex VH-0810

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Flame-retardant ABS material with the characteristic of high flow that can applied to the exterior material of OA devices such as monitor, printer, fax machine, duplicator etc.

General Information			
UL YellowCard	E115797-219608		
Features	Flame Retardant		
	High Flow		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
	Household Goods		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	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	0.28 to 0.34	%	
Across Flow : 3.20 mm	0.30 to 0.37	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	103		ASTM D785
R-Scale	108		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2100	MPa	ASTM D638
--	2300	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	33.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	11	%	ASTM D638
Break	11	%	ISO 527-2/50
Flexural Modulus			

-- ⁵	2200	MPa	ASTM D790
-- ⁶	2600	MPa	ISO 178
Flexural Strength			
-- ⁷	60.0	MPa	ASTM D790
-- ⁸	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	19	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	250	J/m	ASTM D256
23°C, 6.35 mm	230	J/m	ASTM D256
23°C ¹⁰	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	79.0	°C	ISO 75-2/B
0.45 MPa, Annealed	86.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	78.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	70.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	81.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	87.0	°C	ISO 306/B50
--	88.0	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.50 mm	V-0		
3.00 mm	V-0		
6.00 mm	V-0		
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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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

