

Starex VH-0800

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	E115797-219602
Features	Flame Retardant
	High Flow
Uses	Electrical Housing
	Electrical/Electronic Applications
	Household Goods

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.4	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.30 to 0.37	%	
Across Flow : 3.20 mm	0.33 to 0.40	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1400	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	41.0	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2/50
Break ³	30.0	MPa	ASTM D638
Break	35.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	24	%	ASTM D638
Break	2.6	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2200	MPa	ASTM D790
-- ⁶	2700	MPa	ISO 178
Flexural Strength			

-- ⁷	61.0	MPa	ASTM D790
-- ⁸	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	230	J/m	ASTM D256
23°C, 6.35 mm	200	J/m	ASTM D256
23°C ¹⁰	21	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	91.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	81.0	°C	ISO 75-2/B
0.45 MPa, Annealed	85.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	70.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	70.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	80.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	86.0	°C	ISO 306/B50
--	89.0	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.50 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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