Starex VH-0819

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Flame-retardant ABS material with the characteristic of high flow that can be used for the exterior material of large TV and OA devices

General Information	
UL YellowCard	E115797-219612
Features	Flame Retardant High Flow
Uses	Electrical Housing Electrical/Electronic Applications

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	8.8	g/10 min	ASTM D1238
200°C/5.0 kg	7.8	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.45 to 0.65	%	
Across Flow : 3.20 mm	0.45 to 0.65	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	104		ASTM D785, ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2100	MPa	ASTM D638
--	2200	MPa	ISO 527-2/50
Tensile Strength			
Yield [2]	39.0	MPa	ASTM D638
Yield	39.0	MPa	ISO 527-2/50
Break [3]	38.0	MPa	ASTM D638
Break	30.0	MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	10	%	ASTM D638
Break	10	%	ISO 527-2/50
Flexural Modulus			
-- [5]	2200	MPa	ASTM D790
-- [6]	2200	MPa	ISO 178
Flexural Strength			

-- [7]	59.0	MPa	ASTM D790
-- [8]	63.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9] (23°C)	24	kJ/m²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C, 6.35 mm	170	J/m	ASTM D256
23°C [10]	22	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	78.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	88.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	74.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	84.0	°C	ISO 75-2/A
Vicat Softening Temperature	84.0	°C	ISO 306/B50
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.50 mm	V-1		
1.80 mm	V-1		
2.00 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

Recommended distributors for this material

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