Starex GA-4025

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Permanent static prevention material with 25% GF reinforcement that can be applied to OA device and tray

General Information			
UL YellowCard	E115797-100054223		
Filler / Reinforcement	Glass Fiber		
Uses	Electrical Housing		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.25	g/cm³	ASTM D792
--	1.24	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.4	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955, ISO 2577
Ash Content	25	%	ISO 3451
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	104		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	5500	MPa	ASTM D638
--	5800	MPa	ISO 527-2/50
Tensile Strength			
Yield [2]	54.0	MPa	ASTM D638
Yield	77.0	MPa	ISO 527-2/50
Break [3]	69.0	MPa	ASTM D638
Break	77.0	MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	2.1	%	ASTM D638
Break	2.3	%	ISO 527-2/50
Flexural Modulus			
-- [5]	5100	MPa	ASTM D790
-- [6]	6500	MPa	ISO 178
Flexural Strength			
-- [7]	75.0	MPa	ASTM D790
-- [8]	106	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9] (23°C)	5.9	kJ/m²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	47	J/m	ASTM D256
23°C, 6.35 mm	40	J/m	ASTM D256
23°C [10]	5.2	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	106	°C	ASTM D648
0.45 MPa, Unannealed, 6.40 mm	108	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	108	°C	ISO 75-2/B
1.8 MPa, Unannealed, 3.20 mm	104	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	102	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	102	°C	ISO 75-2/A
Vicat Softening Temperature			
--	103	°C	ISO 306/B50
--	105	°C	ISO 306/B120
Flammability	**Nominal Value**		**Test Method**
	HB		
Flame Rating (1.50 to 1.60 mm)	V-2		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	180 to 190	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	220 to 230	°C	
Nozzle Temperature	240	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	49.0 to 245	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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