

Starex HG-0760

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

ABS material that can be applied to telephone, vacuum cleaner and electric fan stand

General Information			
UL YellowCard	E115797-219542		
Uses	Electrical/Electronic Applications		
	Household Goods		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	109		ASTM D785
R-Scale	108		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	39.0	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2/50
Break	35.0	MPa	ISO 527-2/50
Tensile Strain (Break)	19	%	ISO 527-2/50
Flexural Modulus			
-- ²	2100	MPa	ASTM D790
-- ³	2400	MPa	ISO 178
Flexural Strength			
-- ⁴	60.0	MPa	ASTM D790
-- ⁵	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 6.35 mm	210	J/m	ASTM D256
23°C ⁷	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed, 4.00 mm)	84.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	ISO 306/B50

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	230	°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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