

Starex SR-0320

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex SR-0320 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive.

General Information			
UL YellowCard	E115797-219569		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.2	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.50 to 0.70	%	
Across Flow : 3.20 mm	0.60	%	
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	45.0	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2/50
Break	37.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	15	%	ASTM D638
Break	22	%	ISO 527-2/50
Flexural Modulus ³	2450	MPa	ISO 178
Flexural Stress ⁴	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength ⁶ (23°C)	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	100	°C	ISO 75-2/B
0.45 MPa, Annealed	109	°C	ISO 75-2/B
1.8 MPa, Unannealed, 4.00 mm	87.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	105	°C	ISO 75-2/A
Vicat Softening Temperature	109	°C	ISO 306/B120
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.	5.0 mm/min	
3.	2.0 mm/min	
4.	2.0 mm/min	
5.	Thickness: 4 mm	
6.	Thickness: 4 mm	

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