

Starex NH-0927

Acrylonitrile Butadiene Styrene
SAMSUNG SDI CO., LTD.

Message:

Starex NH-0927 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard		E115797-100655030	
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
--	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	3.5	g/10 min	ASTM D1238
200°C/5.0 kg	3.6	g/10 min	ISO 1133
Molding Shrinkage			
Flow : 3.20 mm	0.30 to 0.60	%	ASTM D955
3.20 mm	0.30 to 0.60	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	110		ASTM D785
R-Scale	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2300	MPa	ASTM D638
--	2500	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	54.0	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2/50
Break ³	35.0	MPa	ASTM D638
Break	36.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	25	%	ASTM D638
Break	13	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2600	MPa	ASTM D790
-- ⁶	2600	MPa	ISO 178
Flexural Strength			
-- ⁷	66.0	MPa	ASTM D790

-- ⁸	78.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	21	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	180	J/m	ASTM D256
23°C, 6.35 mm	160	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	94.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	90.0	°C	ISO 75-2/B
0.45 MPa, Annealed	85.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	88.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	78.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	89.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	96.0	°C	ISO 306/B50
--	99.0	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.00 mm	V-2		
3.00 mm	V-2		
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.	5.0 mm/min		

4.	5.0 mm/min
5.	2.5 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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