

Starex NH-0825

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Starex NH-0825 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	E115797-219549		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	41.0	MPa	ASTM D638
Yield	43.0	MPa	ISO 527-2/50
Break	33.0	MPa	ISO 527-2/50
Tensile Strain (Break)	18	%	ISO 527-2/50
Flexural Modulus ²			
--	2200	MPa	ASTM D790
--	2240	MPa	ISO 178
Flexural Strength ³			
--	65.0	MPa	ASTM D790
--	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	23	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 6.35 mm	220	J/m	ASTM D256
23°C ⁵	22	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	83.0	°C	ISO 75-2/B
0.45 MPa, Annealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	78.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	71.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	85.0	°C	ISO 75-2/A

Vicat Softening Temperature			
--	89.0	°C	ISO 306/B50
--	91.0	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	V-2		
1.50 mm	V-2		
2.50 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.	50 mm/min		
2.	2.8 mm/min		
3.	2.8 mm/min		
4.	Thickness: 4 mm		
5.	Thickness: 4 mm		

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