

Infino NH-8310

Polyphenylene Ether
SAMSUNG SDI CO., LTD.

Message:

Infino NH-8310 is a Polyphenylene Ether (PPE) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Characteristics include:
Flame Rated
RoHS Compliant

General Information			
UL YellowCard	E115797-100895831		
Filler / Reinforcement	Glass Fiber		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	14	g/10 min	ASTM D1238, ISO 1133
Ash Content	34	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	110	MPa	ASTM D638
Yield	112	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	8300	MPa	ASTM D790
-- ³	8670	MPa	ISO 178
Flexural Strength			
-- ⁴	140	MPa	ASTM D790
-- ⁵	143	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	134	°C	ISO 75-2/B
0.45 MPa, Annealed	137	°C	ISO 75-2/B
1.8 MPa, Unannealed, 4.00 mm	127	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	131	°C	ISO 75-2/A
Vicat Softening Temperature	132	°C	ISO 306/B50
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
1.50 mm	V-1	
3.00 mm	V-1	
Injection	Nominal Value	Unit
Drying Temperature		
--	100	°C
Desiccant Dryer	100	°C
Drying Time		
--	2.0 to 4.0	hr
Desiccant Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	260 to 270	°C
Middle Temperature	280	°C
Front Temperature	290 to 300	°C
Nozzle Temperature	300	°C
Mold Temperature	50.0 to 100	°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.	2.8 mm/min	
3.	2.0 mm/min	
4.	2.8 mm/min	
5.	2.0 mm/min	
6.	Thickness: 4 mm	

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