

High Performance Low CTE Material For IC Substrate NY8320 NS/NY8320 NSB

FEATURES:

- Low CTE / High Tg / High Modulus for warpage control
- Superior PTH reliability and easy PCB processing
- Low moisture absorption
- Halogen free

APPLICATIONS:

- IC Substrate

Typical Properties for NY8320 NS/NY8320 NSB

Property	Item		IPC-TM-650	Test Condition	Unit	Typical Value
Thermal	Tg		2.4.24	TMA	℃	>200
			2.4.24.4	DMA	℃	>250
	CTE,X/Y-axis		2.4.24.5	<Tg,TMA	PPM/℃	10
	CTE,Z-axis		2.4.24	<Tg,TMA	PPM/℃	20
				>Tg,TMA	PPM/℃	80
	Z-axis Expansion		2.4.24	50~260℃	%	0.8-1.0
	Td		2.4.24.6	TGA(5%W.L)	℃	420
	T288		2.4.24.1	Clad	Min	>60
Etched				Min	>60	
Electrical	Dk	1GHz	2.5.5.9	C-24/23/50	-	4.4
		10GHz	SPDR method			4.3
	Df	1GHz	2.5.5.9	C-24/23/50	-	0.006
		10GHz	SPDR method			0.007
	Volume Resistivity		2.5.17.1	C-96/35/90	MΩ-cm	1X10 ⁹
	Surface Resistivity				MΩ	1X10 ⁸
Physical	Water Absorption		2.6.2.1	E-1/105+D-24/23	%	0.12
	Peel Strength (VLP)	Toz	2.4.8	As Received	N/mm	0.7
	Flexural Modulus		GB / T 1040.1-2018	@RT	Gpa	26/27
	Young's Modulus		2.4.4	@RT	Gpa	26/27
	Flame Resistance		UL-94	A&E-24/125	-	V-0

- Dk/Df test specimen thickness: 0.8mm (#2116x8)
- All these results are typical value for reference only, but not guarantee value. NOUYA reserves the right to future changes