

Halogen-free & Mid-Tg & Low Z-axis CTE NY3176HF/NY3176HFP

FEATURES:

- Mid-Tg Halogen-free and Lead-free Compatible
- Low Z-axis CTE
- Excellent Dimension Stability

APPLICATIONS:

- LCD
- Notebook & Tablet
- HDD & SSD
- Smart Phone
- Wearable
- Memory Module

Typical Properties for NY3176HF Laminate

Property	Item		IPC-TM-650	Test Condition	Unit	Typical Value
Thermal	Tg		2.4.25	DSC	℃	/
			2.4.24	TMA	℃	150
			2.4.24.4	DMA	℃	190
	CTE,X/Y-axis		2.4.24.5	<Tg,TMA	PPM/℃	13/14
	CTE,Z-axis		2.4.24	<Tg,TMA	PPM/℃	35
				>Tg,TMA	PPM/℃	215
	Z-axis Expansion		2.4.24	50~260℃	%	2.8
	Td		2.4.24.6	TGA(5%W.L)	℃	380
	T288		2.4.24.1	Clad	Min	>60
Etched				Min	>60	
Electrical	Dk(R/C:50%/70%)	1MHz	2.5.5.9	C-24/23/50	-	4.8/4.4
		1GHz	2.5.5.9			4.3/4.0
	Df(R/C:50%/70%)	1MHz	2.5.5.9	C-24/23/50	-	0.009/0.011
		1GHz	2.5.5.9			0.011/0.013
	Volume Resistivity		2.5.17.1	C-96/35/90	MΩ-cm	1.5×10 ⁸
	Surface Resistivity				MΩ	2.0×10 ⁷
Physical	Water Absorption		2.6.2.1	E-1/105+D-24/23	%	0.11
	Peel Strength (HTE)	1oz	2.4.8	As Received	N/mm	1.2
	Peel Strength (RTF)	1oz				0.95
	Peel Strength (HVLP)	1oz				/
	Flexural Strength	Warp	2.4.4	As Received	N/mm ²	480
		Fill				420
	Flame Resistance		UL-94	A&E-24/125	-	V-0

- All these results are typical value for reference only, but not guarantee value. NOUYA reserves the right to future changes