

Data Sheet

High Speed, Low Loss Multi-layer Materials

MEGTRON7

Laminate R-5785
Prepreg R-5680

Jan. 2015 No.15012228

Partnering to go beyond.

Electronic Materials
Panasonic Corporation

САУФОН
МЕХНОЛОЖУС

Specification / Laminate R-5785

Property		Units	Test Method	Condition	Value		
					E glass	Low- Dk glass	
THERMAL	Glass Transition Temp (Tg)	C	DSC	As received	200	200	
			DMA	As received	210	210	
	Thermal Decomposition Temp (Td)	C	TGA	As received	400	400	
	Time to Delam (T288)	Without Cu	Min	IPC TM-650 2.4.24.1	As received	> 120	> 120
		With Cu	Min	IPC TM-650 2.4.24.1	As received	> 120	> 120
	CTE : α1	X - axis	ppm / C	IPC TM-650 2.4.24	< Tg	14 - 16	14 - 16
		Y - axis	ppm / C	IPC TM-650 2.4.24	< Tg	14 - 16	14 - 16
Z - axis		ppm / C	IPC TM-650 2.4.24	< Tg	42	42	
CTE : α2	Z' - axis	ppm / C	IPC TM-650 2.4.24	> Tg	280	280	
ELECTRICAL	Volume Resistivity		MΩ - cm	IPC TM-650 2.5.17.1	C-96/35/90	1 x 10 ⁹	1 x 10 ⁹
	Surface Resistivity		MΩ	IPC TM-650 2.5.17.1	C-96/35/90	1 x 10 ⁸	1 x 10 ⁸
	Dielectric Constant (Dk)	@1GHz	-	IPC TM-650 2.5.5.9	C-24/23/50	3.63	3.37
		@ 12GHz	-	*Note 1	C-24/23/50	3.61	3.35
	Dissipation Factor (Df)	@1GHz	-	IPC TM-650 2.5.5.9	C-24/23/50	0.002	0.001
@ 12GHz		-	*Note 1	C-24/23/50	0.003	0.002	
PHYSICAL	Water Absorption		%	IPC TM-650 2.6.2.1	D-24/23	0.06	0.06
	Peel Strength	1oz (H-VLP)	kN / m	IPC TM-650 2.4.8	As Received	0.8	0.8
	Flammability		-	UL	C-48/23/50	94V-0	94V

Sample thickness ; 29.5 mil = 0.75 mm

Note 1: The method by H. Kawabata, Proceedings of the 36th European Microwave Conference, 388-391 (2006)

*The data above show actual values and are not guaranteed.

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