

Data Sheet

**Halogen Free
& Narrow Pitch IC Substrate Materials**

MEGTRON  **Laminate R-1515W**

Feb. 2015 No.15020302

Partnering to go beyond.

Electronic Materials
Panasonic Corporation

ПАИФОН
МЕХНОЛОЖИЈС

Specification / Laminate R-1515W

Property		Units	Test Method	Condition	Value	
THERMAL	Glass Transition Temp (Tg)	C	DMA	As received	250	
	Thermal Decomposition Temp (Td)		TGA		390	
	Time to Delam (T260)	With Cu	min		IPC TM-650 2.4.24.1	> 120
	Time to Delam (T288)					> 120
	CTE : $\alpha 1$	X - axis	ppm / C	IPC TM-650 2.4.24	< Tg	8 - 10
		Y - axis				8 - 10
		Z - axis				22
CTE : $\alpha 2$	Z - axis			> Tg	97	
Thermal Conductivity		W / nK	Laser Flash	25 C	0.7	
ELECTRICAL	Volume Resistivity		M Ω - cm	IPC TM-650 2.5.17.1	C-96/35/90	1 x 10 ⁹
	Surface Resistivity					M Ω
	Dielectric Constant (Dk)	1GHz	-	IPC TM-650 2.5.5.9	C-24/23/50	4.8
	Dissipation Factor (Df)					0.015
PHYSICAL	Water Absorption		%	IPC TM-650 2.6.2.1	D-24/23	0.12
	Flexural Strength	X	GPa	IPC TM-650 2.4.4	As Received	520
		Y				480
	Flexural Modulus	X	GPa	JIS C6481		35
		Y				33
	Peel Strength	35 μ m	kN / m	IPC TM-650 2.4.8		
Flammability		-	UL	C-48/23/50		94V-0

The sample thickness is 0.8mm.

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

++ Before purchase ++

- * If delivery specifications have been agreed upon, descriptions in the delivery specifications take precedence.
- * Specifications and appearances are subject to change without prior notice for product improvement.
- * For details of the products contained in this catalog, contact your dealer or our sales representative.
- * ALL data are our actual values and not assured values.

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