

DS-7405 (UV), DS-7405S

(ANSI: FR-4) UV BLOCKING / HIGH CTI

Features

- Di-functional epoxy resin type
- Good dimensional stability
- Good electric properties
- UV blocking property for DS-7405(UV)
- High CTI property for DS-7405S

Applications

- Computer & peripherals
- VCR, TV, electronic game machine, etc.

General Properties

Property	Unit	Test Condition	DS-7405	DS-7405 (UV)	DS-7405S
Tg	°C	DSC	135	135	135
		TMA	135	135	135
CTE Z-axis	ppm/°C	Ambient to Tg	60	60	50
Z-axis Expansion	%	50°C to 260°C	3.8	3.8	3.6
Decomposition Temp (5% wt loss)	°C	TGA	315	315	315
T-260	min	TMA	15	15	15
T-288	min	TMA	2	2	2
Dielectric Constant (R/C 50%)		C-24/23/50 (1GHz)	4.3	4.3	4.4
Dissipation Factor (R/C 50%)		C-24/23/50 (1GHz)	0.014	0.014	0.015
CTI	volt		150	150	600
Peel Strength (Standard profile 1oz)	N/mm	Condition A	1.9	1.9	1.9
Water Absorption	%	E-24/50+D-24/23	0.13	0.13	0.13

* IPC-4101B/21

* Test specimen thickness: 1.0mm (7628x5)

Prepreg Parameter

[Thin Core] (DS-7405, DS-7405(UV)

Thickness (mm)	Glass Fabric	Copper Foil spec.
0.3 ~ 1.0	1506 7628	0/0, 1/0
1.0 ~ 2.4, 3.2	7628	0/0, 1/0, 1/1, H/H

- 0: No copper, H: 0.5 oz, 1: 1 oz, 2: 2 oz
- 1/1: 1oz copper foil on one side / 1oz on the other side
- Thickness data are typical values.
- Each value has variation of about ±(0.1~0.2) mm.

[Bonding Sheet] (DS-7405)

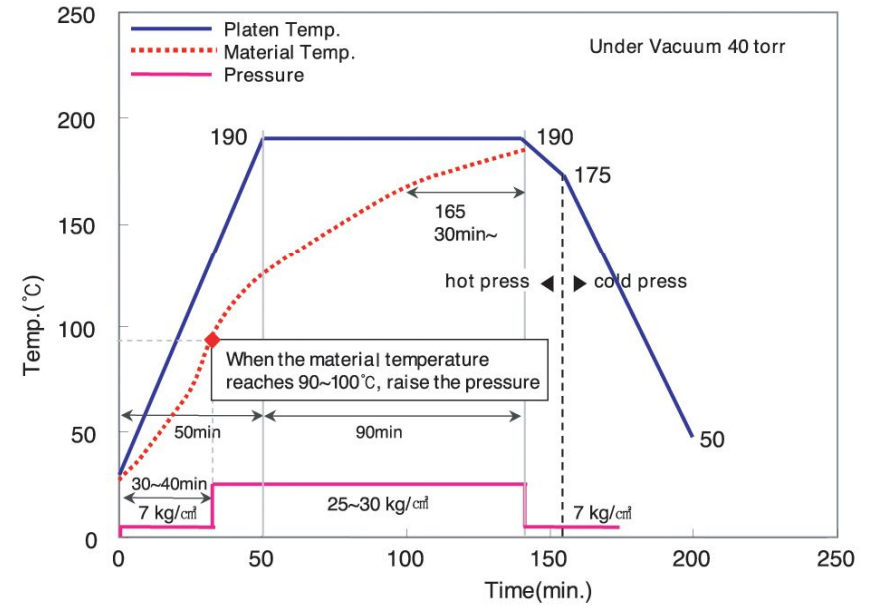
Glass Fabric	Resin Content	Thickness (mm)
106	70%	0.045
1080	62%, 64%	0.06
2116	52%~53%	0.11
1506	48%	0.15
7628	42%, 48%	0.18, 0.20

- Data of Resin Content and Thickness are typical values.
- Each value has variation of about ±3%, 0.03 mm.

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Recommended Press Cycle



- Material heating rate (80~130°C) : 1.5 ~ 2.5 °C/min
- Curing condition : above 165°C 30min~