

VT-42C PROCESS GUIDE

UL Approval: E214381 Version: Rev. B2

VT-42C CCL /Laminate VT-42C PP/Prepreg

Precautions in Handling

Storage Condition & Shelf Life

		Prepreg		Laminate
Storage Condition	Temperature	Below 23°C (73°F)	Below 5°C (41°F)	Room
	Relative Humidity	Below 55%	/	/
Shelf Life		3 Months	6 Months	24 Months

- Prepreg exceeding shelf life should be retested.
- Take care in handling thin core laminates as they are easily damaged.
- If the prepreg is not consumed within 48hrs after opening the vacuum package, it is recommended that the bags be resealed.
- Material is available in both long and short grain. The grain direction is indicated on the label with an arrow.

Designing and Inner layer Process

- Please be careful when single ply of 1080, 1086, 1078 or 106 prepreg is designed to the dielectric layer.
- Dimension stability is the same with Standard FR4 material.
- Please check with your oxide vendor to make sure that our material is suitable with your oxide process. We recommend to control the peel strength with brown oxide copper over 2 Lb/in.
- For unclad or single sided laminates to be used in multilayer, please brush unclad sides before use.

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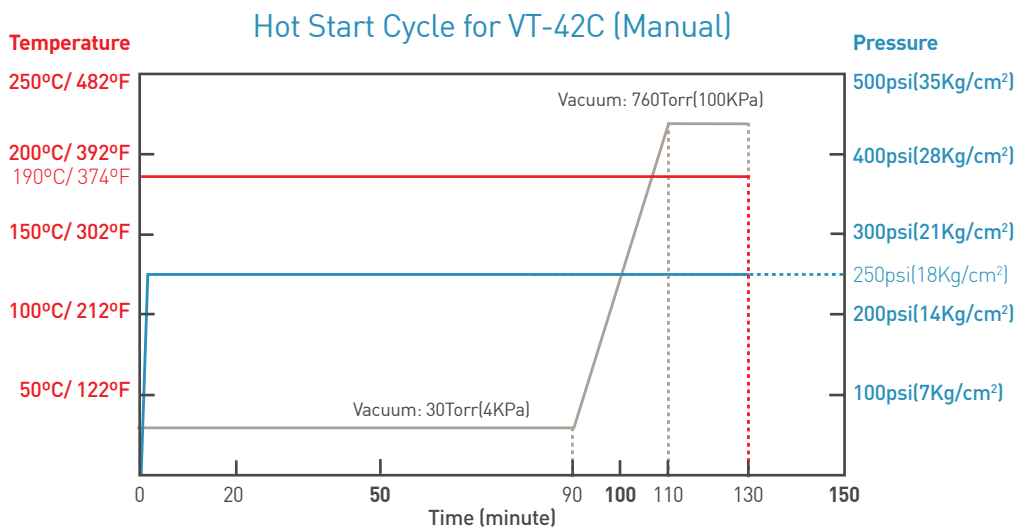
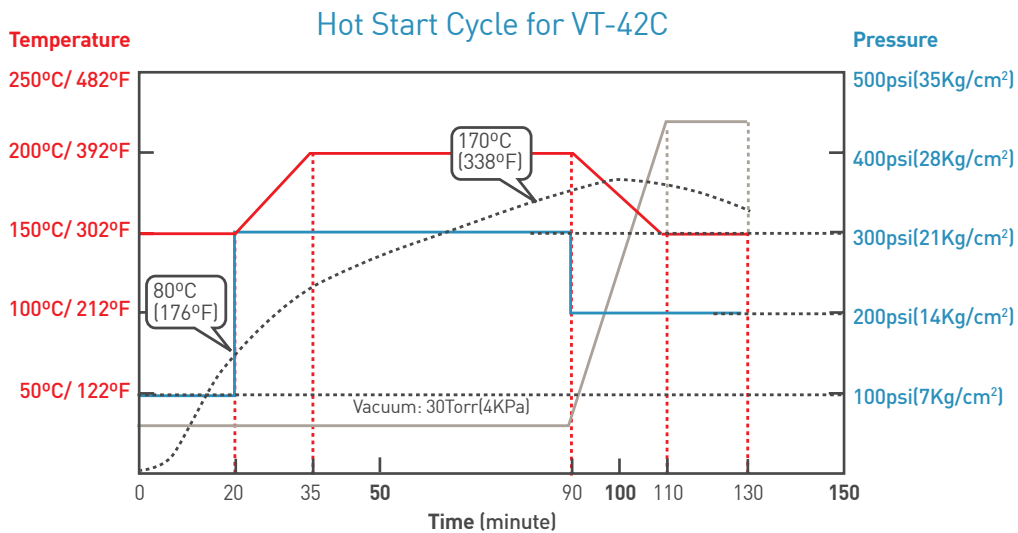
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Press Condition

1. Heating rate (Rise of Rate) of material [Material Temperature]:
Programmable Press: 1.5-3.0°C/min (3~5°F/min). Manual Press: 3~6°C /min (5~10°F/min)
2. Curing Temperature & Time: >50min at more than 170°C (338°F) [Material Temperature]
3. Full Pressure: ≥280psi (20Kgf)
4. Vacuuming should be continued until over 140°C (284°F) [Material Temperature]
5. Cold Press condition: Keep Plate @ Room Temperature by water; Pressure: 100psi; Keep Time: 60minutes



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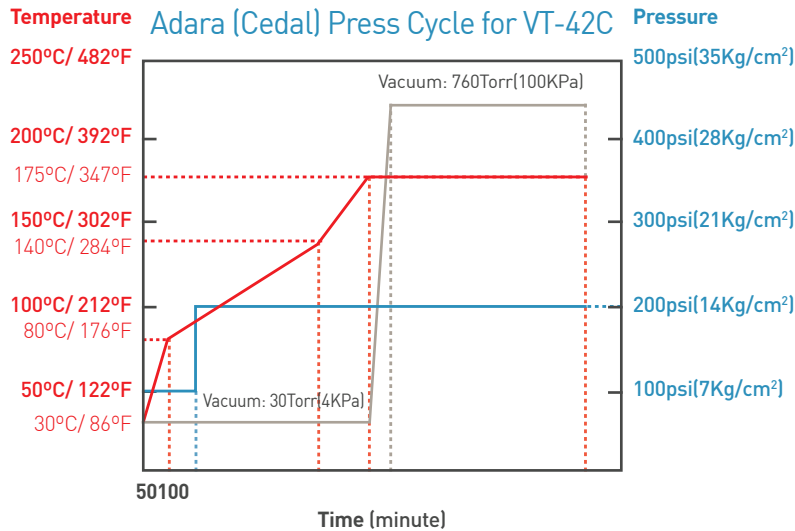
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Typical Drilling Parameters (φ0.3-1.0 mm) [Recommended]

1. Spindle Speed:	64-105	KRPM
2. Feed Rate:	100-150	inch / min
3. Retract Rate:	596-600	inch / min
4. Chip Load:	0.7~2.0	mil / Rev.
5. Entry board:	t0.15mm Al	-

Desmearing Process

Standard FR4 Desmear Process

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