

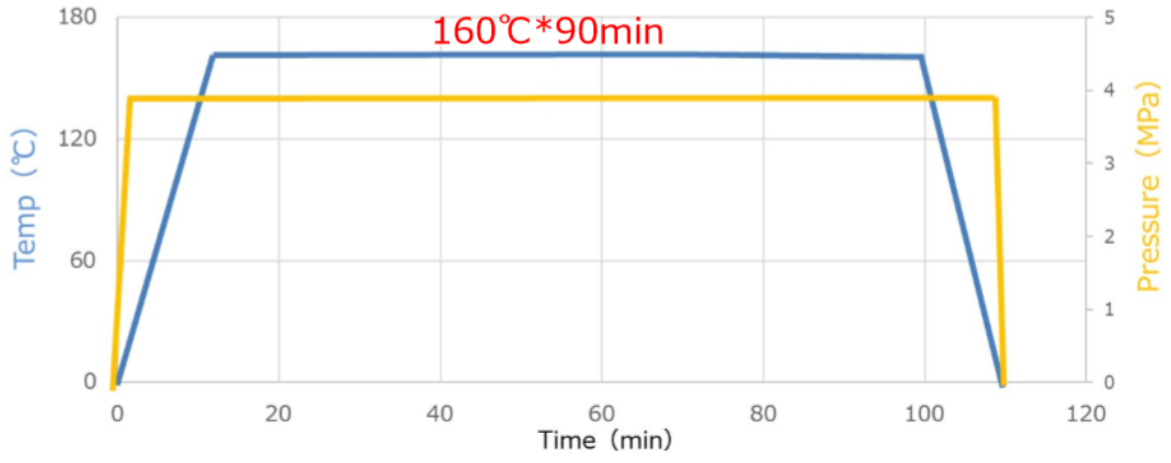
# Prepreg F4-PP220

## Technical parameter

Project	Test method	Test conditions	Test value	
Peel strength (N/mm)	IPC-TM-650	90 ° traction	> 1.4	
Solder heat resistance	IPC-TM-650	288 °C, 10S * 3 times	No blistering or layering	
Flame resistance	UL94	----	V-0	
Dielectric constant	IPC-TM-650	DK	1GHz	2.25
			10GHZ	2.25
			40GHZ	2.24
		Df	1GHz	0.0015
			10GHZ	0.0015
			40GHZ	0.0016
Tg (°C)	TMA	----	-30	
CTE (ppm/°C)	TMA		312	
TD (°C)	TGA	1% weight reduction rate temperature	350	
Water absorption rate (%)	IPC-TM-650	23 °C/24hr	0.1	
Resistance to ion migration (HAST)	/	110 °C/90% RH 96hr L/S=75/75	No short circuit, no branching migration	

## Recommended processing parameters for pressing

	step	Remarks
1	Feeding the compressor	It is recommended to have a normal temperature, and the starting temperature should not exceed 120 °C
2	Vacuuming	
3	Pressure relief: 2.8~3.8Mpa <->1.0Mpa X3 times	Pressure relief is to eliminate foaming, and this step is recommended
4	Pressurize to 2.8-3.8MPa	
5	Heating up: according to the heating rate of ordinary PP sheets	
6	Release pressure again around 100 °C	Pressure relief is to eliminate foaming, and this step is recommended
7	Set temperature above 160 °C, 2.8-3.8Mpa, 90 minutes	
8	Fully release pressure when lowering the temperature below 110 °C	It is recommended to completely release pressure at low temperatures



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