

CCL Report 2020

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Outline of the Survey

1. Objective of the Report

This report is issued to provide basic information on Copper Clad Laminate (CCL) material to relevant companies to help them making their technical and/or marketing strategies for the market based on survey and analysis of the global trends of the product.

2. Items of the Survey

CCL/FCCL and relevant manufacturers

3. Method of the Survey

Direct interviews, questionnaires, newspapers, academic, technical journals and internet survey, etc.

4. Period of the Survey

From May 2020 through October 2020

5. Remarks

- All of numerical data in this report is prepared by JMS unless so noted.
- The market sizes are all worldwide basis.
- The data is a calendar year basis.
- The amount of the market is calculated in USD. The exchange rates in 2019 are as follow.
※1USD=109Yen=1160KRW=32.2NTD=6.6RMB=0.8928EUR=0.1277HK\$

Outline of the Survey

6. Researched Items & Related Categories

Items		Description	
Categories	Paper Phenolic	FR1, FR2, XPC, etc.	
	Composite	CEM1, CEM-3, etc.	
	Glass Epoxy (Tg)	Low Tg	Tg = Approximately 130 Degrees in Celsius (DSC)
		Middle Tg	Tg = Approximately 150 Degrees in Celsius (DSC)
		High Tg	Tg = Approximately 170 Degrees in Celsius (DSC)
	High-Functional	PTFE, Polyimide, Cyanate Ester, etc.	
	Metal Clad	Organic Resin Clad with a Metal Layer (Aluminum, Copper, etc.)	
	Insulation Film	Insulation Films for Build-Up Layers	
	FCCL	Materials for Flexible Circuits	
	Others	Mass Lamination Boards, Coverlay Films, Bonding Sheets, Insulation Boards, etc.	
Application Fields	Consumer	Audio/visual equipment, home appliances, etc.	
	Computer	PCs, PC peripherals, large computers, storages, servers, etc.	
	Communications Infrastructure	Switches/routers, base station related equipment, communication relay equipment, telephone related equipment, etc.	
	Mobile	Mobile phones, wearables, tablets, wireless devices, etc.	
	Automotive	ECU board, car navigation, car audio, etc.	
	Industrial & Medical	Factory equipment such as machine tools, building equipment such as elevators, railways, energy-related equipment, medical equipment, etc.	
	Aerospace & Military	Passenger planes, artificial satellites, fighters, etc.	
	IC Substrates	BGA/CSP, Modules Partially Included	

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