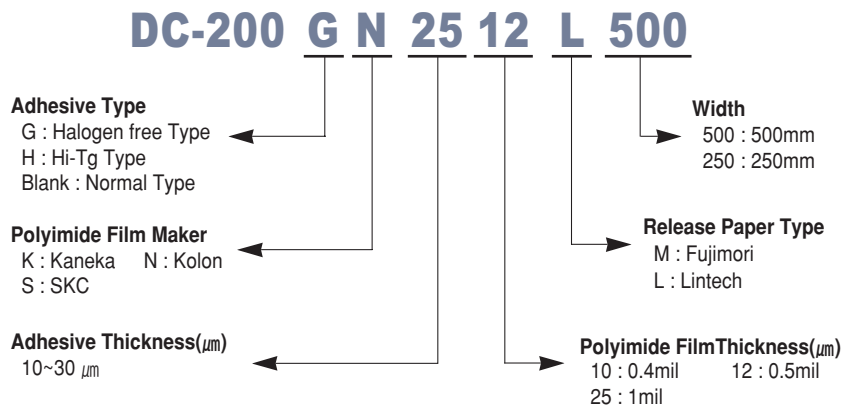


# Coverlay

## DC-200

## Material Profile

### RULE OF PRODUCT CODE FOR COVERLAY



**Definition:** DC-200, DOOSAN Coverlay films, can be used to encapsulate etched patterns in flexible and rigid-flex multi-layer constructions for environmental protection and electrical insulation. It is composed of polyimide film, epoxy adhesive, and releasing paper.

### Features

- Excellent property of electricity
- Excellent processing property
- Excellent dimensional stability
- Excellent flexibility
- Excellent bond strength to bonding sheet and prepreg



# Coverlay

## DC-200

### General Specification

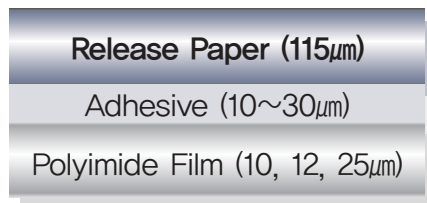
PI Film Thickness ( $\mu\text{m}$ )	10, 12, 25
Adhesive Thickness ( $\mu\text{m}$ )	10~30
Material Length (M/Roll)	100, 200
Material Width (mm)	250, 500
Core Type (inch)	Paper (3", 6")

**Notice:** Keep it the below 7°C

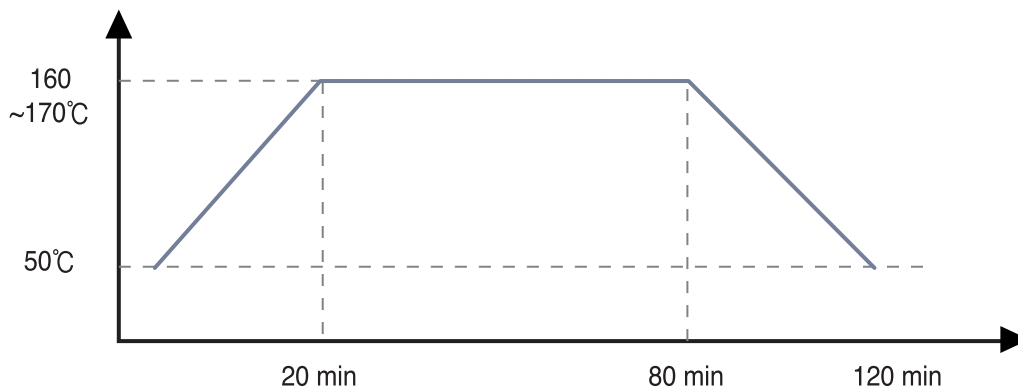
**Guaranteed Shelf-Life: 3 months**

**UL File No: E103670**

### Structure



### Hot Press Conditions



**Constant Pressure: 30~35Kg/cm<sup>2</sup>**

# Coverlay

## DC-200

### Properties of DC-200, DC-200G

Test Item		UNIT	Properties		Test Method
			Normal	Halogen Free	
Peel Strength	As Received	Kg/cm	Min.1.3		IPC TM650 2.4.9
	After Solder Float				
Solder Float	300°C, 10sec	-	Pass		IPC TM650 2.4.13
Dimensional Stability	Release Paper Removed	MD	Max ±0.05		IPC TM650 2.2.4
		TD			
	After Thermal (150°C, 30min)	MD	Max -0.04		
		TD			
Surface Resistance		Ω	Min 1 × 10 <sup>11</sup>	Min 1 × 10 <sup>11</sup>	IPC TM650 2.5.17
Volume Resistance			Min 1 × 10 <sup>12</sup>	Min 1 × 10 <sup>12</sup>	
Dielectric Constant		-	Max 3.5	Max 3.1	
Dissipation Factor		tanδ	Max 0.01	Max 0.01	
Resin Flow (RF)		mm	Max 0.1		Doosan Method
Moisture Absorption		%	Max 1.5		IPC TM650 2.6.2
Folding Endurance	MIT(R=0.38) with DSflex-600 122000EP	times	Min 3,000		JIS C 6471
Chemical Resistance	10% NaOH	10min	Pass		IPC TM650 2.3.3
	Methanol	5min			
	IPA	5min			

**Note** : Above values is based on the sample test of **DC-200 N1512L, DC-200 GN1512L** pressed with DSflex-600 122000EP. These are only typical values, not Doosan's official specifications.

**Guarantee:** 3months after delivery. ( Keep in the below 7°C)