



Dream Is the Challenger's
DIC CO., Ltd.
 ADD : 604-5 (78, HAEBONG-RO), SEONGGOK-DONG, DANWON-GU,
 ANSAN-SI, GYEONGGI-DO, KOREA
 TEL : +82-31-439-7766
 FAX : +82-31-503-9996
 WEB : WWW.DICGLOBAL.CO.KR

1. Properties of HTE Type

Classification	unit	Requirement						Test Method	
		T	H	M	1	2	3		
Foil Designation								IPC-4562A	
Nominal Thickness		12μm	1/2 oz	3/4 oz	1 oz	2 oz	3 oz	IPC-4562A	
Area Weight	g/m ²	107±4	153±5	228±8	285±10	580±15	860±20	PC-TM-650 2.2.12.2	
Purity	%	≥ 99.8						IPC-TM-650-2.3.15	
Foil Profile	Shiny side	μm	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4	IPC-TM-650-2.3.17	
	Matte side	μm	≤ 5	≤ 7	≤ 8	≤ 9	≤ 13		≤ 18
Tensile Strength	R.T.(23℃)	Mpa	≥ 150	≥ 220	≥ 235	≥ 280	≥ 280	IPC-TM-650 2.3.18	
	H.T.(180℃)		≥ 110	≥ 110	≥ 110	≥ 150	≥ 150		≥ 150
Elongation	R.T.(23℃)	%	≥ 4	≥ 4	≥ 4	≥ 5	≥ 5	IPC-TM-650 2.3.18	
	H.T.(180℃)		≥ 4	≥ 4	≥ 4	≥ 5	≥ 5		≥ 5
Subject	Ω.g/m ²	≤ 0.170	≤ 0.166	≤ 0.162	≤ 0.162	≤ 0.162	≤ 0.162	IPC-TM-650 2.5.14	
Peelstrength(FR 4)	N/mm	≥ 1.0	≥ 1.3	≥ 1.6	≥ 1.6	≥ 2.1	≥ 2.1	IPC-TM-650 2.4.8	
Pinholes & porosity	number	NO						IPC-TM-650 2.1.2	
Anti-Oxidization	R.T.(23℃)	day	180						
	H.T.(200℃)	minutes	60						

* Standard width : 1295(±1)mm May according to the customer request tailor.
 * We test the peel strength with FR 4(Tg140) prepreg. Please reconfirm with your PP.

2. Properties of LP Type

Classification	unit	Requirement					Test Method	
		10μm	12μm	18μm	25μm	35μm		
Foil Designation			T	H	M	1	IPC-4562A	
Nominal Thickness		10μm	12μm	1/2 oz	3/4 oz	1 oz	IPC-4562A	
Area Weight	g/m ²	98±4	107±4	153±5	228±8	285±10	PC-TM-650 2.2.12.2	
Purity	%	≥ 99.8					IPC-TM-650-2.3.15	
Foil Profile	Shiny side	μm	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	IPC-TM-650-2.3.17	
	Matte side	μm	≤ 4	≤ 4.5	≤ 5.5	≤ 6		≤ 8
Tensile Strength	R.T.(23℃)	Mpa	≥ 260	≥ 260	≥ 280	≥ 280	IPC-TM-650 2.3.18	
	H.T.(180℃)		≥ 180	≥ 180	≥ 180	≥ 180		≥ 180
Elongation	R.T.(23℃)	%	≥ 5	≥ 6	≥ 8	≥ 10	IPC-TM-650 2.3.18	
	H.T.(180℃)		≥ 5	≥ 6	≥ 7	≥ 8		≥ 8
Peelstrength(FR 4)	N/mm	0.7	0.8	1	1.1	1.2	IPC-TM-650 2.4.8	
	lbs/in	4	4.6	5.7	6.3	6.9		
Pinholes & porosity	number	NO					IPC-TM-650 2.1.2	
Anti-Oxidization	R.T.(23℃)	day	180					
	H.T.(200℃)	minutes	60					

* Standard width : 520(±1)mm May according to the customer request tailor(max 1300mm).
 * We test the peel strength with PI. Please reconfirm with your PI and adhesives.

3. Properties of LBC Type

Classification	unit	Requirement				Test Method	
		Q	T				
Foil Designation						IPC-4562A	
Nominal Thickness		8μm	9μm	10μm	12μm	IPC-4562A	
Area Weight	g/m ²	70-75	85-90	95-100	105-110	PC-TM-650 2.2.12.2	
Purity	%	≥ 99.8				IPC-TM-650-2.3.15	
Foil Profile	Shiny side	μm	≤ 0.3	≤ 0.3	≤ 0.3	IPC-TM-650-2.3.17	
	Matte side	μm	≤ 3	≤ 3	≤ 3		≤ 3
Tensile Strength	R.T.(23℃)	Mpa	≥ 294	≥ 294	≥ 294	IPC-TM-650 2.3.18	
	H.T.(180℃)		≥ 196	≥ 196	≥ 196		≥ 196
Elongation	R.T.(23℃)	%	≥ 5	≥ 5	≥ 5	IPC-TM-650 2.3.18	
	H.T.(180℃)		≥ 3	≥ 3	≥ 3		≥ 3
Pinholes & porosity	number	NO				IPC-TM-650 2.1.2	
Anti-Oxidization	R.T.(23℃)	day	180				
	H.T.(200℃)	minutes	60				

* Width : 200~1300(±1)mm
 * May according to the customer request tailor (200~1300mm).