

UV Dicing Tapes, Pantech Tape Co., Ltd.																					
Substrate	PE		expandable PO			PO													PET		
Color	Transparent		matt		semi-clear	matt													Transparent		
deep cut/ shallow cut	deep cut				shallow	deep cut							shallow cut				shallow to deep cut				
Usage	PCB package				Silicon wafer	PCB Package					Glass/Ceramic IC dicing						Silicon Wafer		Glass IC dicing		
Catalog NO.	UP150	UP153	UA166	UA168	UB801	UB163	UP163-45	UP163	UP183	UP164	UP163-20	UP151A	UP1608	UP1808	UP821	UP822	UP802A	UP806	UV1007	UV1005	
Substrate	PE	PE	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PET	PET	
thickness of substrate, mm	0.14	0.14	0.14	0.14	0.08	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.14	0.14	0.08	0.08	0.08	0.08	0.10	0.10	
adhesive thickness, mm	0.01	0.03	0.02	0.02	0.005	0.03	0.045	0.03	0.03	0.03	0.02	0.015	0.02	0.02	0.03	0.04	0.005	0.01	0.15	0.15	
total thickness, mm	0.15	0.17	0.16	0.16	0.085	0.17	0.185	0.17	0.17	0.17	0.16	0.145	0.16	0.16	0.11	0.12	0.085	0.09	0.125	0.125	
Tensile Strength, kgs/25mm	8.0	8.0	14.0	14.0	8.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	8.0	8.0	8.0	8.0	>20	>20	
Elongation	1000%	1000%	600%	600%	800%	600%	600%	600%	600%	600%	600%	600%	600%	600%	800%	800%	800%	800%	150%	150%	
Thickness of PET liner, mm	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	50μ	
adhesion	To SUS, before UV	950	1,800	1,400	880	300	2,000	2,700	2,200	2,000	1,900	1,500	1,500	1,100	1,000	1,900	2,200	400	270	2,800	2,500
	To SUS, after UV 300mJ/cm ²	95	68	30	8	9	30	50	15	30	35	50	25	30	40	30	50	3	7	10	10
	To Glass, before UV	1,200	900	1,400			2,000	2,400	2,200	1,700				550	550						
	To Glass, after UV 300mJ/cm ²	40	35	20			20	35	20	20				15	25						
	To Silicon wafer, before UV	1,450	1,300			320		2,400	2,200	1,500				550	550			400			
	To silicone wafer, after UV 200mJ/cm ²	40	45			9		35	35	26				15	25			7			

updated on Dec. 24, 2013