

SPECIFICATION OF PRODUCT **MXTNG FILM**

INSPECTION DETAILS Prepared for Photodon, LLC

PROPERTIES		SPEC		Methods	
STRUCTURE		AG resin (5um)			
		Substrate PET film (100um)			
		Silicon resin (50um)		-	
		Release film (50um)			
PHYSICAL PROPERTIES	THICKNESS	156 ± 5um		Detected by micrometer	
	TRANSMITTANCE	> 90%		HITACHI U-4000 spectrophometer	
	HAZE	5-9		NIPPON DENSHOKU NDH-2000	
	GLOSS	90+15%		NIPPON DENSHOKU VG-2000	
	HARDNESS	3H		JIS K-5400/8.4 Standard	
	SCRATCH RESISTANCE	No Scratches		#0000 Steel Wool	
	ADHESION	100/100		JIS K-5400/8.5 Standard	
	Adhesive Peel Strength	3 ~ 7 gf/inch		JIS-20237 Standard	
	Tack of adhesive	> 20 cm		JIS-20237 Standard	
	Environment Test	Pass		500 hours of tests in 80°C • 60°C/90%RH and UV exposure environment	
	Solvent Resistance	Pass		Surface not damaged by 5 % NaOH - Alcohol and 3 % HCl solvent	
Surface Inspection	Point	$\text{¥} < 0.15\text{mm}$	No count	Each piece of products is examined by eyes carefully and 30X lupe is used to determine defect types.	
		$0.15\text{mm} \leq \text{¥} \leq 0.2\text{mm}$	< 3		
		$\text{¥} > 0.2\text{mm}$	1		
	Line	$W \geq 1 \text{ mm}, L \geq 1.5\text{mm}$	0		
	Square	$0.2\text{mm} \geq W * L$	2		
	Dirt	None			
	Scratch	None			
	Bending	Bending heights are less than 1 cm at corners.			Samples are cut into A4 size to determine the bending heights.
	Lamination	Bubbles • gel • dirt are not allowed in adhesive face.			Agreement is confirmed between customer and manufacturer.
	Edge	Clear cut of each side is required.			
Remarks – Web Page http://www.photodon.com/lcdprotect-sheet.htm					
1. Physical properties of HC layer are test before applying adhesives.					
2. ¥ is defined as follows - $\text{¥} = (W+L)/2$					