



Certificate of Analysis

Screen Protective Film - MXG

Company	Photodon, LLC	Michigan	USA	Phone 847-377-1185	Fax 877-255-2570	
Product Name	MXG - Maxi Anti-Glare			Product Type	PET	
Film Roll Size	98.5 cm x 200 meters (38.75 inches x 656 feet)					
Test Condition	Temp (°C) 23 ± 3			Humidity 25%		
	Test Items	Unit	Spec	Result	Test Method	
Material	Top Liner	50µm	PET			
	AG Resin	5 µm ± 1	UV 17% Cut			
	Substrate PET Film	100µm	PET			
	Silicone Resin	25µm	Silicone			
	Release Liner	50µm	PET			
	Thickness without liners	130µm ± 1	.005"			
Optical Properties	Total Luminous Transmittance	%	>87	89.5	ASTM-D1003-77	
	Gardner Haze	%	35	35	ASTM-D1003-77	
	Gloss Level @ 60°					
	Rainbow Moire	-	Ver 2	Pass	-	
Thermal Properties	Curling	%	>90	92.5		
	Thermal Shrinkage	%	MD/TD<1.0	0.13/0.15		
	Retentivity	mm/hr	500g/100°C	<3.0	KSA1107	
	Heat Cycle		-20°C↔80°C 20 Cycles	OK		
Mechanical Properties	Burst Strength	MPA		1.75 MPA	ASTM D774-67	
	Dimensional Stability	%		0.2% Max Shrinkage	MD @ 120° C	
	Tabor Abrasion	%		Δ 9% Max	ASTM D1044-82 100 cycles	
	Pencil Hardness	Film only	H	≥ 5	5H @ 45°, 450g Load	ASTM D3363
		w/adhesive	H	≥ 4	4H @ 45°, 1 kg Load	ASTM D3363
	Peeling Strength	gf/25mm	180° Peel Off	30 ± 2	ASTM D6001 (12 > Competitor's average)	
	RCA	-	No Scratch	Pass	-	
	Adhesion	-	100/100	Pass	Cross Hatch Test	
	Yellowness Index	-	<0.2	OK	ASTM D1925-70 (Japanese white raw material)	
	Anti-fouling Property					
Chemical Resistance	Resistant to:				DIN 42 115	
	Alcohols	Hydrocarbons				
	Dilute acids	Ketones				
	Dilute alkalis	Household cleaning agents				
	Esters					