



Certificate of Analysis

Screen Protective Film - MXC

Company	Photodon, LLC	Michigan	USA	Phone 847-377-1185	Fax 877-255-2570
Product Name	MXC - Perfect Clear		Product Type	D/S HC-PET	Date 2015/March
Film Roll Size	104 cm x 200 meters (41 inches x 656 feet)				
Test Condition	Temp (°C) 23 ± 2		Humidity 28%		
	Test Items	Unit	Spec	Result	Test Method
Material	Top Liner	µm	60	60	Micro Meter
	AG Resin / Hard Coating	µm	≥ 2	3.8	Micro Meter
	Substrate PET Film	µm	Norminal ± 1	100 ± 1	Micro Meter
	Silicone Resin	µm	50 ± 2	51	Micro Meter
	Release Liner	µm	60	60	Micro Meter
	Thickness without liners	150µm	.006"		
Optical Properties	Total Luminous Transmittance	%	>92	93.6	JIS K 7105
	Gardner Haze	%	≥ 2.0%	0.8	JIS K 7105
Thermal Properties	Rainbow Moire	-	No Visible	Excellent	Eye Test
	Thermal Shrinkage	%	MD/TD ≤ 1	0.13/0.14	
	Retentivity	mm/hr	<3.0	2.4	500g/100°C
Mechanical Properties	Heat Cycle		No Visible	OK	-20°C↔80°C 20°C Cycles
	Wrap	mm/hr	≤ 10	1	150 / 60min
	Flexibility		No Visible	OK	Finger Test
	Pencil Hardness	H	≥ 2	3	JIS K 5600
	Linear Flaw	ea	No Visible	Excellent	Eye Test
	Spot Flaw	ea	Wide + Length/2 ≤0.3mm 10ea↓	3 ± 1	Eye Test, Lupe, Light Table
	Adhesion	-	100/100	100/100	Cross Hatch Test
Chemical Resistance	Resistant to:				
	Alcohols	Hydrocarbons			
	Dilute acids	Ketones			
	Dilute alkalis	Household cleaning agents			
	Esters				