

Photodon LLC		Michigan	USA	Ph: 847-377-1185	Email: sales@photodon.com	
Product Name:	P2L	Finished Material Type:	2-way privacy filter, 40% glare reduction, blocks 50% of blue light, reversible with matte anti-glare or clear		Date 8-23-24	
Film Sheet Size: 1000mm (nominally)			Country of Origin: Korea - Customized and Processed in the USA			
Tested Items		Thickness (µm)	Thickness (in)	Test Method	Notes	
Material	Release Liner (Green)	50	0.0019	Micrometer		
	Top Liner	50	0.0019	Micrometer		
	AG Coating	-	-	-		
	2-way Privacy Layer	400	0.0157	Micrometer		
	Clear Hard Coating Layer	-	-	-		
	Release Liner (Blue)	50	0.0019	Micrometer		
	Total Thickness	550 ± 20	0.0216	Micrometer		
	Thickness without liners	400	0.0157	Micrometer		
Tested Items		Unit	Spec	Result	Test Method	
Optical Properties	Total Light Transmittance	%	-	≥ 73 ± 5	ASTM D1003-77 / JIS K 7361* Spectrophotometer(Konika CM5)	
	Haze	%	-	≤ 25 ± 3	ASTM D1003-77 / JIS K 7136*	
	Color Coordinate	-	-	x : 0.313 ± 0.02 y : 0.320 ± 0.02	Haze meter (COH-300A) Light Source:D65	
	Left View Angle	°	-	≤ 30 ± 3	BM-7	
	Right View Angle	°	-	≤ 30 ± 3	BM-7	
	Peak Blue Light Cut Rate	nm	450 ~ 470	40%	Spectrometer	
	Avg. Blue Light Cut Rate	nm	380 ~ 480	55%	Spectrometer	
Thermal Properties	High Temp	°	-	No Problem	80°C, 100 Hrs	
	Low Temp	°	-	No Problem	-20°C, 100 Hrs	
	Temp/Humidity	°C/RH%	-	No Problem	60°C / 90% RH, 100 Hrs	
	Heat Cycle	-	-	No Problem	-20°C ↔ 80°C, 10 cycles	
	Q UV	-	-	No Problem	20W / UV-B Lamp, 20 HR	
Mechanical Properties	Pencil Hardness @ AG surface	Film only	H	-	≥ 2	ASTM D3363 / JIS K5600-5-4 2H @ 45°, 750g load
		w/ adhesive	H	-	≥ 1	ASTM D3363 / JIS K5600-5-4 1H @ 45°, 750g load
	Scratch Resistance	-	-	No Damage	ASTM D1044 Steel wool (#0000)*20 Laps @ 200g load/cm²	
Chemical Resistance	Resistant to:					
	Alcohols - Dilute acids - Dilute alkalis - Esters - Hydrocarbons - Ketones			No Problem	DIN 42 115	

*After peeling off liners