

<b>Photodon LLC</b>		Michigan	USA	Ph: 847-377-1185	Email: sales@photodon.com	
<b>Product Name:</b>	<b>P2L</b>	<b>Finished Material Type:</b>	2-way privacy filter, 40% glare reduction, blocks 50% of blue light, reversible with matte anti-glare or clear		Date 9-15-2022	
<b>Film Sheet Size: 1000mm (nominally)</b>						
<b>Tested Items</b>		<b>Thickness (µm)</b>	<b>Thickness (in)</b>	<b>Test Method</b>	<b>Notes</b>	
<b>Material</b>	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		
<b>Tested Items</b>		<b>Unit</b>	<b>Spec</b>	<b>Result</b>	<b>Test Method</b>	
<b>Optical Properties</b>	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	
<b>Thermal Properties</b>	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	
<b>Mechanical Properties</b>	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/cm <sup>2</sup>	
<b>Chemical Resistance</b>	<b>Resistant to:</b>					
	Alcohols - Dilute acids - Dilute alkalis - Esters - Hydrocarbons - Ketones			No Problem	DIN 42 115	

\*After peeling off liners