

<b>Photodon LLC</b>	Michigan	USA	Ph: 847-377-1185	Email: sales@photodon.com	
<b>Product Name:</b>	<b>P2S</b>	<b>Finished Material Type:</b>	2-way privacy filter, 40% glare reduction, blocks 50% of blue light	Date 9-15-2022	
<b>Film Sheet Size: 1000mm (nominally)</b>					
Tested Items		Thickness (µm)	Thickness (in)	Test Method	Notes
<b>Material</b>	Top Liner	50	0.0019	Micrometer	
	2-way Privacy Layer	230	0.0090	Micrometer	
	Silicone Backing	25	0.0009	Micrometer	
	Release Liner	50	0.0019	Micrometer	
	Total Thickness	355	0.0139	Micrometer	
	Thickness without liners	255	0.0100	Micrometer	
Tested Items		Unit	Spec	Result	Test Method
<b>Optical Properties</b>	Total Light Transmittance	%	60 ± 5	60.3	JIS K 7105
	Left View Angle	°	25 ± 5	25	250 Lux Standard
	Right View Angle	°	25 ± 5	25	250 Lux Standard
<b>Thermal Properties</b>	Thermal Shrinkage	mm/hr	MD/TD ≤1	0.15 / 0.16	-
	Retentivity	mm/hr	≤ 3.8	3.5	500g/100°C
	Yellowness	-	No Visible	Excellent	-20°C ↔ 85°C, 30 cycles
	Heat Cycle	-	-	No Problem	-20°C ↔ 85°C, 30 cycles
<b>Mechanical Properties</b>	Pencil Hardness	H	≥ 3	3	JIS K 5600
	Scratch Resistance	-	-	Pass	10 Laps @ 5kg
	Spot Flaw	EA	Width + Length /2 ≤ 0.3mm 5ea ↓	3	Eye Test, Lupe, Light Table
	Linear Flaw	EA	No Visible	Excellent	Eye Test
	Eye Test	-	No Visible	Excellent	Eye Test
<b>Chemical Resistance</b>	<b>Resistant to:</b>				
	Alcohols	Esters		No Problem	DIN 42 115
	Dilute acids	Hydrocarbons			
	Dilute alkalis	Ketones			