

Photodon LLC	Michigan	USA	Ph: 847-377-1185	Email: sales@photodon.com	
Product Name:	AGB	Finished Material Type:	20% glare reduction, blocks up to 93% of blue light, matte finish	Date 9-23-2024	
Film Roll Size: 1040mm (nominally)			Country of Origin: Korea – Customized and Processed in the USA		
Tested Items		Thickness (µm)	Thickness (in)	Test Method	Notes
Material	Top Liner	60	0.0023	Micrometer	-
	Anti-Glare Coating	8	0.0003	Micrometer	-
	PET	100	0.0039	Micrometer	Rainbow Free PET
	Silicon	30	0.0012	Micrometer	-
	Release Liner	50	0.0020	Micrometer	-
	Total Thickness	248 ± 10	0.0098	Micrometer	-
	Thickness without liners	138	0.0054	Micrometer	-
Tested Items		Unit	Spec	Result	Test Method
Optical Properties	Light Transmittance	%	87	87	ASTM D1003
	Haze	%	-	13	ASTM D1003
	Blue Light Cut	nm	380-410	100%	Spectrometer
	Blue Light Cut	nm	420-450	65%	Spectrometer
	Rainbow Moire	-	-	OK	Visual on glass, no liner
Thermal Properties	Curling	%	> 90	91.5	-
	Thermal Shrinkage	%	MD/TD < 1.0	0.11/0.17	-
	Retentivity	mm/hr	-	< 3.0	KSA1107 500g/100 °C
	Temp/Humidity	°C/RH%	-	OK	High Temp Chamber 100°C / 100% RH
	Heat Cycle	-	-	OK	Thermo-Hygrostat -30°C ↔ 100°C, 30 cycles
Mechanical Properties	Adhesion Stability	-	100/100	Pass	JIS K 5600
	Spot Flaw	EA	Wide + Length/2 ≤ 0.3mm 5ea ↓	< 1	Eye Test, Lupe, Light Table
	Linear Flaw	EA	No Visible	Excellent	Eye Test, Lupe, Light Table
	Pencil Hardness	-	H	≥ 4 / PET ≥ 3 / Finished	Pencil Hardness Test / 500g Pencil Hardness Test / 350g
	Scratch Resistance	-	-	OK	Surface tester with steel wool 500 cycles

Chemical Resistance	Resistant to:			
	Alcohols	Esters	No Problem	DIN 42 115
	Dilute acids	Hydrocarbons		
	Dilute alkalis	Ketones		