

Photodon LLC						Michigan	USA	Ph: 847-377-1185	Email: sales@photodon.com	
Product Name:		MXH		Finished Material Type:		25% glare reduction, low fingerprint retention, paper-like feel, matte finish			Date 8-23-24	
Film Roll Size: 1250mm (nominally)						Country of Origin: Taiwan - Customized and Processed in the USA				
Temp/Humidity Used for Testing:										
		Tested Items		Thickness (µm)		Thickness (in)		Test Method		Notes
Material		Top Liner		50		0.0019		Micrometer		
		AG + AF Coating		5		0.0002		Micrometer		
		PET Film		100		0.0039		Micrometer		
		Silicone Backing		50		0.0019		Micrometer		
		Release Liner		50		0.0019		Micrometer		
		Total Thickness		255 ± 5%		0.0100		Micrometer		
		Thickness without liners		155		0.0061		Micrometer		
		Tested Items		Unit		Spec		Result		Test Method
Optical Properties		Total Light Transmittance		%		-		≥ 90		JIS K7105
		Haze		%		-		12 ± 2		JIS K7105
Thermal Properties		Heat Cycle		-		-		Pass		-20°C↔80°C, 10 cycles
		Humidity Resistance		-		-		Pass		60°C @ 90% RH
Mechanical Properties		Pencil Hardness		H		-		3		JIS K 5400 test standard, using Mitsubishi hardness pencil (silicon free)
		Adhesion Stability		-		100/100		Pass		JIS K-5400/8.5 Cross Cut Adhesion Test
		Peeling Strength	Film only	gf/50mm		-		5 ± 3		JIS-Z-0237
			Release film	gf/25mm		-		< 20		JIS-Z-0237
Scratch Resistance		-		-		No Damage		ASTM D1044 Steel wool (#0000)*10 Laps @ 2000g load/cm ²		
Chemical Resistance		Resistant to:								
		Alcohol						No Problem		-
		3% Ammonia								
		3% Solvents								