



Technical Data Sheet

MXB Material

Photodon LLC						Michigan	USA	Ph: 847-377-1185	Email: sales@photodon.com	
Product Name:	MXB	Finished Material Type:		Blocks up to 93% of blue light, clear/glossy finish		Date 8-23-24				
Film Roll Size: 1016mm (nominally)						Country of Origin: China - Customized and Processed in the USA				
Tested Items		Thickness (µm)	Thickness (in)	Test Method	Notes					
Material	Top Liner	60	0.0023	Micrometer						
	Hard Coating	4	0.0002	Micrometer						
	PET Film	246	0.0096	Micrometer						
	Silicone Backing	30	0.0011	Micrometer						
	Release Liner	50	0.0019	Micrometer						
	Total Thickness	390 ± 0.04	0.0153	Micrometer						
	Thickness without liners	280	0.0110	Micrometer						
Tested Items		Unit	Spec	Result	Test Method					
Optical Properties	Total Light Transmittance	%	88	88	ASTM B1003					
	Haze	%	4	4	ASTM D 1003					
	Blue Light Cut	nm	380-410	100%	-					
	Rainbow Moire	-	No Visible	Pass	Eye Test					
Mechanical Properties	Pencil Hardness	H	≤ 4	≤ 4	ASTM D3363-74					
	Adhesion Force g/25mm	gf	6	6	FINAT-1 180°					
	Degumming Test	-	None	None	3MP SOP-T0012					
	Adhesion Stability	-	100/100	Pass	ASTM D 3359 Cross Cut Adhesion Test					
Chemical Resistance	Resistant to:									
	Alcohols	Esters			No Problem	DIN 42 115				
	Dilute acids	Hydrocarbons								
	Dilute alkalis	Ketones								