



Technical Data Sheet MXU Material

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Product Name:	MXU	Finished Material Type:	Self-healing	Date 9-15-2022	
Film Roll Size: 960mm (nominally)					
	Tested Items	Thickness (µm)	Thickness (in)	Test Method	Notes
Material	Top Liner	80	0.0031	Micrometer	
	Self-healing Coating	10	0.0003	Micrometer	
	PU Layer	105	0.0041	Micrometer	
	Silicone Backing	20	0.0007	Micrometer	
	Release Liner	50	0.0019	Micrometer	
	Total Thickness	265	0.0104	Micrometer	
	Thickness without liners	135	0.0053	Micrometer	
	Tested Items	Unit	Spec	Result	Test Method
Optical Properties	Total Light Transmittance	%	-	> 92	ASTM D 1003
	Haze	%	-	< 1.2	ASTM D 1003
Mechanical Properties	Pencil Hardness	H	-	2	Pencil tester 500g load
	Adhesion Stability	-	100/100	Pass	ASTM B 571 Cross Cut Adhesion Test
	Adhesion Force (Glass)	gf/inch	-	1000 ± 20	180° Peel 300mm/min
	Scratch Resistance	-	-	Pass	30 repeated passes 1kg load
	Self-Healing Speed	30sec<	-	Fast	ASTM D 3330
Chemical Resistance	Resistant to:				
	Alcohols	Esters		No Problem	DIN 42 115
	Dilute acids	Hydrocarbons			
	Dilute alkalis	Ketones			

[RoHS Compliance Certificate](#)

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The technical data sheets are not guaranteed values, but rather measurement values given as an example. Photodon does not guarantee the film can be used for any example applications provided.