



Technical Data Sheet MXO Material

Company	Photodon, LLC	Michigan	USA	Phone 847-377-1185	Fax 877-255-2570	
Product Name	MXO - Clear Oleophobic			Product Type	HC-PET	
Film Roll Size	104 cm x 200 meters (41 inches x 656 feet)					
Test Condition	Temp (°C) 22 ± 2			Humidity 28%		
	Test Items	Unit	Spec	Result	Test Method	
Material	Top Liner	µm	PET	50	Micro Meter	
	AG Resin	µm ± 1	UV 17% Cut	3.5	Micro Meter	
	Subtrate PET Film	um	PET	100	Micro Meter	
	Silicone PSA	µm	Silicone	31	Micro Meter	
	Release Liner	µm	PET	50	Micro Meter	
	Thickness without liners	µm ± 1		134.5 / .0053	Micro Meter	
Optical Properties	Total Luminous Transmittance	%	>92	93.5	JISK7105	
	Gardner Haze	%	>2	.08	JISK7105	
	Rainbow Moire	-	Ver 2	Pass	EYE Test	
Thermal Properties	Curling	%	150°c / 60min	<10	1	
	Thermal Shrinkage	%	MD/TD <1	0.13/0.14		
	Retentivity	mm/hr	<3.0	2.4	500g/100°C	
	Heat Cycle			OK	-20°C↔90°C 30 Cycles	
Mechanical Properties	Pencil Hardness	Film only	H	≥ 3	3H @ 45°, 750g load	JISK5600
		w/adhesive	H	≥ 2	2H @ 45°, 1kg load	JISK5600
	Peeling Strength	gf/25mm	180° Peel Off	30 ± 2	ASTM D6001 (12 > Competitor's Average)	
	Adhesion	-	100/100	Pass	Cross Hatch Test	
	Anti-fouling Property	-		OK	Visual inspection for repellence of oil-based marker	
Chemical Resistance	Resistant to:				DIN 42 115	
	Alcohols	Hydrocarbons				
	Dilute acids	Ketones				
	Dilute alkalis	Household cleaning agents				
	Esters					