



## MGX-3921

18 mil Near Dead Opaque Styrene ID  
20.75" x 29.5"

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### DESCRIPTION:

MGX's Styrene, also known as Polystyrene or PS, boasts several advantages that make it a versatile material. It offers excellent impact resistance, is easily machinable, cost-effective, and FDA compliant for indirect food contact and is recyclable. Its bright white appearance, multiple opacities, and formability make it suitable for various applications.

### APPLICATIONS:

Point-of-Purchase Signage • Backlit Displays • Push/Pull Graphics • Gift, Loyalty, Library and Fundraising Cards

Physical Properties	Condition	Actual Value	Units	Thickness	Test Method
Melt Flow Rate	200°C 5.0kg	3.0	g/10 min.		ASTM D-1238
Tensil Strength	2.0 in./min.	2,800	psi	0.050 in.	ASTM D-638
Tensile Modulus	2.0 in./min.	235,000	psi	0.050 in.	ASTM D-638
Tensile Elongation	2.0 in./min.	75	%	0.050 in.	ASTM D-638
Flexural Strength	0.1 in./min.	4,600	psi	0.250 in.	ASTM D-790B
Flexural Modulus	0.1 in./min.	238,000	psi	0.250 in.	ASTM D-790B
Notched Izod Impact	73°F	2.1	ft-lb in.	0.125 in.	ASTM D-256
Vicat Softening Temp	Rate B	213	°F	0.250 in.	ASTM D-1525
Deflection Temp	246 psi	185	°F	0.250 in.	ASTM D-648
Linear Mold Shrinkage	24 HR	0.004-0.008	in./in.		ASTM D-955
Specific Gravity		1.03			ASTM D-972
Bulk Density		38-42	lbs./ft. <sup>3</sup>		
Recycle Code					
Injection Molding - Machine Settings			Extrusion		
Zone	Conditions		Zone	Condition	
Nozzle	415 - 470°F		Zone #1	350 - 380°F	
Zone #1	425 - 480°F		Zone #2	360 - 400°F	
Zone #2	425 - 480°F		Zone #3	370 - 410°F	
Zone #3	390 - 415°F		Zone #4	390 - 420°F	
Back Pressure	25-175 psi		Zone #5	400 - 430°F	
			Zone #6	400 - 430°F	
			Melt, Pump, Adapter, Pipes, Screen Changer	380 - 450°F	
			Die	390 - 450°F	
			Polish Rolls	150 - 220°F	
			Melt Temp	380 - 450°F	
			Head Pressure	1500 - 3000 psi	

Product Performance and Suitability Disclaimer: All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the "Information") shall be used only as a guide by Purchaser and not for specification or any other purpose. The Information does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own test. MGX shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the Information.