



# ENDURANCE MGX - 1733

## .015 MIL MATTE WHITE STYRENE

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• Typical uses include packaging and one-time use items, printed toys & games, POP displays, silk screen printing

• Excellent printability, matte surface finish

• High heat distortion temperature, good low temperature toughness

PROPERTIES	CONDITION	ENGLISH <sup>2</sup>	UNITS	SI <sup>2</sup>	UNITS	THICKNESS	ASTM
Melt Flow Rate	200°C 5.0 kg	3.0	g/10 min.	3.0	g/10 min.		D1238
Tensile Strength	2.0 in./min.	2,800	psi	19	MPa	0.050 in.	D638
Tensile Modulus	2.0 in./min.	235,000	psi	1,620	MPa	0.050 in.	D638
Tensile Elongation	2.0 in./min.	75	%	75	%	0.050 in.	D638
Flexural Strength	0.1 in./min.	4,600	psi	32	MPa	0.250 in.	D790B
Flexural Modulus	0.1 in./min.	238,000	psi	1,640	MPa	0.250 in.	D790B
Notched Izod Impact	73°F	2.1	ft-lb in.	112	J/m	0.125 in.	D256
Vicat Softening Temp.	Rate B	213	°F	100	°C	0.250 in.	D1525
Deflection Temp.	246 psi	185	°F	85	°C	0.250 in.	D648
Under Load (DTUL)	(1.8 MPa)						
Linear Mold Shrinkage	24 hours	0.004-0.008	in./in.	0.004-0.008	mm/mm		D955
Specific Gravity		1.03					D972
Bulk Density		38-42	lbs./ft. <sup>3</sup>				

### INJECTION MOLDING - Typical Molding Machine Settings

Zone	SI Conditions	Conditions
Nozzle	213 - 243°C	415 - 470°F
Zone #1	218 - 249°C	425 - 480°F
Zone #2	218 - 249°C	425 - 480°F
Zone #3	199 - 213°C	390 - 415°F
Backpressure	2 -12 bar	25 - 175 psi

### EXTRUSION

Zone	SI Conditions	Conditions
Zone #1	177 - 193°C	350 - 380°F
Zone #2	182 - 204°C	360 - 400°F
Zone #3	188 - 210°C	370 - 410°F
Zone #4	199 - 216°C	390 - 420°F
Zone #5	204 - 221°C	400 - 430°F
Zone #6	204 - 221°C	400 - 430°F
Melt, Pump, Adapter, Pipes, Screen Changer	193 - 232°C	380 - 450°F
Die	199 - 232°C	390 - 450°F
Polish Rolls	66 - 104°C	150 - 220°F
Melt Temp.	193 - 232°C	380 - 450°F
Head Pressure	10 - 21 MPa	1500 - 3000 psi

### Product Performance and Suitability Disclaimer

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