



.010 mil Matte White Styrene
MGX-1728
12" x 18"

1500 FENPARK DRIVE, FENTON, MO 63026 P: 636.349.6401 F: 636.349.6402 MGXDIGITAL.COM SALES@MGXDIGITAL.COM

- Typical uses include lithographic sheets, printed toys and games, POP displays and silkscreen printing
- Excellent printability, matte surface finish
- High heat distortion temperature, good low temperature toughness

| PROPERTIES | CONDITION | ENGLISH ² | UNITS | SI ² | UNITS | THICKNESS | ASTM |
|-----------------------|--------------|----------------------|-----------------------|-----------------|-----------|-----------|-------|
| Melt Flow Rate | 200°C 5.0 kg | 2.0 | g/10 min. | 2.0 | g/10 min. | | D1238 |
| Tensile Strength | 2.0 in./min. | 3,200 | psi | 22 | MPa | 0.050 in. | D638 |
| Tensile Modulus | 2.0 in./min. | 250,000 | psi | 1,720 | MPa | 0.050 in. | D638 |
| Tensile Elongation | 2.0 in./min. | 60 | % | 60 | % | 0.050 in. | D638 |
| Flexural Strength | 0.1 in./min. | 5,500 | psi | 38 | MPa | 0.250 in. | D790B |
| Flexural Modulus | 0.1 in./min. | 235,000 | psi | 1,620 | MPa | 0.250 in. | D790B |
| Notched Izod Impact | 73°F | 2.2 | ft-lb in. | 117 | J/m | 0.125 in. | D256 |
| Vicat Softening Temp. | Rate B | 220 | °F | 104 | °C | 0.250 in. | D1525 |
| Deflection Temp. | 246 psi | 189 | °F | 87 | °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. ³ | | | | |

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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