Your passport to better, safer roads.
Comprehensive vehicle registration solutions.

One trusted name: 3M.

As roads and vehicles change, one thing remains the same: the need for fast, effective identification of vehicles, safeguarded against counterfeiting or obscurity. With 3M’s complete, end-to-end vehicle registration solutions, government agencies and license plate converters can optimize processes, help to make law enforcement’s job easier and maintain revenue flow for infrastructure.

Security
As vehicles have become smarter, our license plate technology has too. Combat counterfeiting and protect public safety and revenue.

3M™ Dynamic Security Script (High Definition) ........................................... 4
3M™ Ensure™ Virtual Security Thread (Beaded) ........................................... 4

Sheeting
Greater brightness, durability, security and visibility is only the beginning.

High Definition Sheeting ................................................................. 5-6
Beaded Sheeting ........................................................................... 7-8
Protective Film & Validation .......................................................... 9

Systems
Get the power of easy, efficient license plate design and production—right from the comfort of your own facility.

3M™ Precision Plate System .............................................................. 10
3M™ Plate Builder Software .............................................................. 10

Services
Whether you’re looking to optimize license plates for machine readability or you need full registration fulfillment services, we’ve got you covered.

Design Services ............................................................................. 11
Registration Fulfillment Services ..................................................... 12

Get your plates in shape at 3M.com/VehicleRegistration
Visible safety

Better visibility means better road safety.
Reflective plates improve nighttime visibility of vehicles, including parked or stalled vehicles when lights are off.

Law enforcement

Serious crimes often involve vehicles.
In the U.S., 20% of law enforcement officers in states that require both front and back license plates reported specifically using the front plate to help their case.

20%

Source: Based on entries for the 2008 LBLP award program sponsored by IACP.

Revenue collection

Vehicle taxes contribute to infrastructure, education and more.
Some experts believe requiring only one license plate would result in over

$23 million
of lost revenue in the state of Colorado alone.


Trust an industry-leading innovator for your vehicle registration needs.

Whether printing digitally or imaging through conventional methods, our High Definition License Plate or standard license plate sheeting give you the flexibility to create the right plates for your application. Security features like 3M™ Dynamic Security Script and 3M™ Ensure™ Virtual Security Thread help combat counterfeiting and protect public safety and revenue.

License Plate Sheeting Product Selector

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>✓</td>
<td>✕</td>
<td>150</td>
<td>White and bright; compatible with a wide range of processes; specific application requirements</td>
<td>6700</td>
<td>5</td>
</tr>
<tr>
<td>✓</td>
<td>✕</td>
<td>50</td>
<td>Inkjet or flexo printing</td>
<td>3750*</td>
<td>6</td>
</tr>
<tr>
<td>✓</td>
<td>✕</td>
<td>50</td>
<td>Thermal transfer printing</td>
<td>9250*</td>
<td>6</td>
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<tr>
<td>✓</td>
<td>✕</td>
<td>45</td>
<td>Traditional embossed plates, subject to surface impressions, wide range of hot stamp foil and roll coat compatibility</td>
<td>4750</td>
<td>7</td>
</tr>
<tr>
<td>✓</td>
<td>✕</td>
<td>50</td>
<td>Traditional embossed plates, no surface impressions, limited hot stamp foil and roll coat compatibility</td>
<td>4770</td>
<td>7</td>
</tr>
</tbody>
</table>

*Requires 3M Overlaminate 9097 to complete construction (Page 9).
Two great options. One goal: Assuring authenticity.

For High Definition License Plates:

3M™ Dynamic Security Script
- Because the dynamic security script is embedded in the production process it’s more secure than conventional printed graphics, watermarks, embossed characters and holograms
- Varied-brightness of image elements allows for visibility from distances up to 25 feet
- Customizable for country or state
- Tamper-resistant

For Beaded Sheeting License Plates:

3M™ Ensure™ Virtual Security Thread
- Vehicle registration plates feature anti-counterfeiting thread that runs vertically or horizontally depending on plate dimensions
- 3D sinusoidal waves appear to float in front of and behind plate surface
- Visible from inside of police vehicles

Just like a driver’s license or passport, secured license plates connect vehicles to owner’s identities. This helps protect public safety as well as the revenue that could be lost to counterfeiting.
3M™ High Definition License Plate Sheeting

Move your license plate production into the future with 3M™ High Definition License Plate Sheeting. Micro-replicated optical elements make it bright, clear and easy to read, especially in the rain or at night.

Series 6700

- Easy for law enforcement to read at greater distances
- White appearance ideal for multi-color or graphic plates
- Compatible with digital printing platforms
- Can be embossed and roll-coated or hot stamped
- Pressure-sensitive adhesive with protective liner that removes easily
- 5-year warranty

More than 2x brighter than 3M™ Beaded License Plate Sheeting
3M™ High Definition License Plate Sheeting and 3M™ Beaded License Plate Sheeting Comparison

<table>
<thead>
<tr>
<th></th>
<th>3M High Definition License Plate</th>
<th>3M Beaded License Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Day</strong></td>
<td><img src="image" alt="Virginia plate" /></td>
<td><img src="image" alt="Virginia plate" /></td>
</tr>
<tr>
<td><strong>Night</strong></td>
<td><img src="image" alt="Virginia plate" /></td>
<td><img src="image" alt="Virginia plate" /></td>
</tr>
<tr>
<td><strong>Reflectivity</strong></td>
<td>&gt;150 cd/lx/m²</td>
<td>~45-70 cd/lx/m²</td>
</tr>
<tr>
<td><strong>Whiteness</strong></td>
<td>Cap Y &gt; 55</td>
<td>Cap Y ~ 40-50</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Embedded during production</td>
<td>Directional/laser—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>added post production</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Prismatic sheeting*</td>
<td>Glass beads with an</td>
</tr>
<tr>
<td></td>
<td></td>
<td>aluminum layer</td>
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<tr>
<td><strong>Plate Manufacturing</strong></td>
<td>Requires adjustments to</td>
<td>Uses existing processes</td>
</tr>
<tr>
<td></td>
<td>the manufacturing process (3M</td>
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<tr>
<td></td>
<td>will assist with conversion)</td>
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<tr>
<td><strong>Printing</strong></td>
<td>Compatible with roll coat or</td>
<td>Compatible with roll</td>
</tr>
<tr>
<td></td>
<td>digital printing methods.</td>
<td>coat or digital</td>
</tr>
<tr>
<td></td>
<td>Extends printhead life by 4X vs.</td>
<td>printing methods</td>
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<tr>
<td></td>
<td>beaded (when using 3M’s DLP</td>
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<td></td>
<td>printer)</td>
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</table>

*3M High Definition License Plate Sheeting has a fabrication line characteristic that’s invisible at normal road distances and does not affect its performance.
3M™ Reflective License Plate Sheeting

Series 3750
Compatible with either inkjet or flexo printing processes, Series 3750 Sheeting is designed for use on multi-year reflective license plates.

- Reflectivity: 50 cd/lx/m²
- Customer-printed with background graphics and variable plate messages, background graphics only or variable plate messages only
- Can be blanked flat or with a debossed rim
- Requires 3M™ Clear Protective Film 9097 overlaminate after printing

3M™ Digital License Plate Sheeting

Series 9250
Compatible with thermal transfer printing processes, 9250 Series Sheeting is designed for use on multi-year reflective license plates fabricated with the 3M™ Digital License Plate System.

- Reflectivity: 50 cd/lx/m²
- Digital printing with background graphics and variable plate messages, background graphics only, or variable plate messages on pre-printed graphics
- Can be blanked flat or with a debossed rim
- Requires 3M™ Clear Protective Film 9097 overlaminate after printing
- Series 9250E features 3M™ Ensure™ Image (directional positive identification images or marks)
- Series 9250T features 3M™ Ensure™ Virtual Security Thread
3M™ Preclear Reflective License Plate Sheeting

Series 4750
Designed for traditional embossed plates, Series 4750 Sheeting offers a wide range of hot stamp foil and roll coat capability.

- Reflectivity: >45 cd/lx/m²
- Transparent or opaque hot stamping foils or roll coating inks
- Vinyl topfilm
- Series 4750E features 3M™ Ensure™ Image (directional positive identification images or marks)
- Series 4750VST features 3M™ Ensure™ Virtual Security Thread

Series 4770
Designed for traditional embossed plates, Series 4770 Sheeting offers good brightness with limited hot stamp foil and roll coat capability.

- Reflectivity: 50 cd/lx/m²
- Transparent or opaque hot stamping foils or roll coating inks
- EAA topfilm
- Series 4770E features 3M™ Ensure™ Image (directional positive identification images or marks)
- Series 4770T features 3M™ Ensure™ Virtual Security Thread
3M™ Digital License Plate Clear Protective Film

Series 9097

Produce fully reflective vehicle registration plates for multi-year use with 3M™ Digital License Plate Clear Protective Film Series 9097.

- Applied to printed 3M™ License Plate Sheeting through roll handling unit of the 3M™ Digital Printing System/Precision Plate System
- Compatible with Sheeting Series' 9250, 3750 and 6700

3M™ Validation Stickers

Help improve officials' ability to see and identify vehicle compliance with 3M's fully reflective decals. They’re highly visible and difficult to remove. Each year the printed color of the decal may be changed for easy identification and revenue collection.
3M™ Precision Plate System

This digital license plate printing solution helps optimize mass production processes.

Improved efficiency: Continuous supply of UV curable ink eliminates “ribbon changeovers” or the need to stop the printer when ink runs low.

Less waste: Back up the sheeting to eliminate gaps between jobs and reduce material waste.

Faster production: 3x faster than 3M’s thermal transfer printer.

Greater flexibility: Purchase and print on white sheeting, achieve photo-realistic resolutions and replace “make to stock” production with “make to order”

3M™ Plate Builder Software

Our easy-to-use software streamlines and optimizes your license plate production when integrated with the 3M™ Precision Plate System.

- Cloud-based system
- Automate order entry
- Track production information from order to shipment
- Produce detailed reports
- Role-based security with secure user logins
3M™ Design Services

License plates should look great to the human eye—and be readable for machine vision too. With 3M™ Design Services, we can help you develop a design that’s adjusted to improve readability for infrared cameras, all without needing to make a sample. From Connected and Automated Vehicles (CAVs), to law enforcement and tolling, easily “readable” plates will be ready for the future.
3M™ Registration Fulfillment Services

Reduce inventory and operational costs with fast turnarounds with 3M™ Registration Fulfillment Services. This complete service offering incorporates motor vehicle credential data, transactions, manufacturing and distribution in one. That means Motor Vehicle Agencies (MVAs) can securely and tightly control issuance through direct mail to motorists.

- Help enhance agency cash flow
- Leverage transaction pricing focus on On-Demand production
- Create potential new revenue sources through optional programs like specialty plates and plate retention fees during reissues
- Includes 3M™ Digital Validation Registration Systems: Hassle-free, centralized, print-on-demand production and management of registration forms and stickers