



## Series DM8200G

DM 8200G is meticulously engineered material that is specifically for long-lasting reflective license plates, suitable for multi-year use. Boasting exceptional flexibility and printability, DM 8200G allows for embossing, roll coating with either transparent or opaque inks, as well as hot stamping, granting license plates diverse customization possibilities.

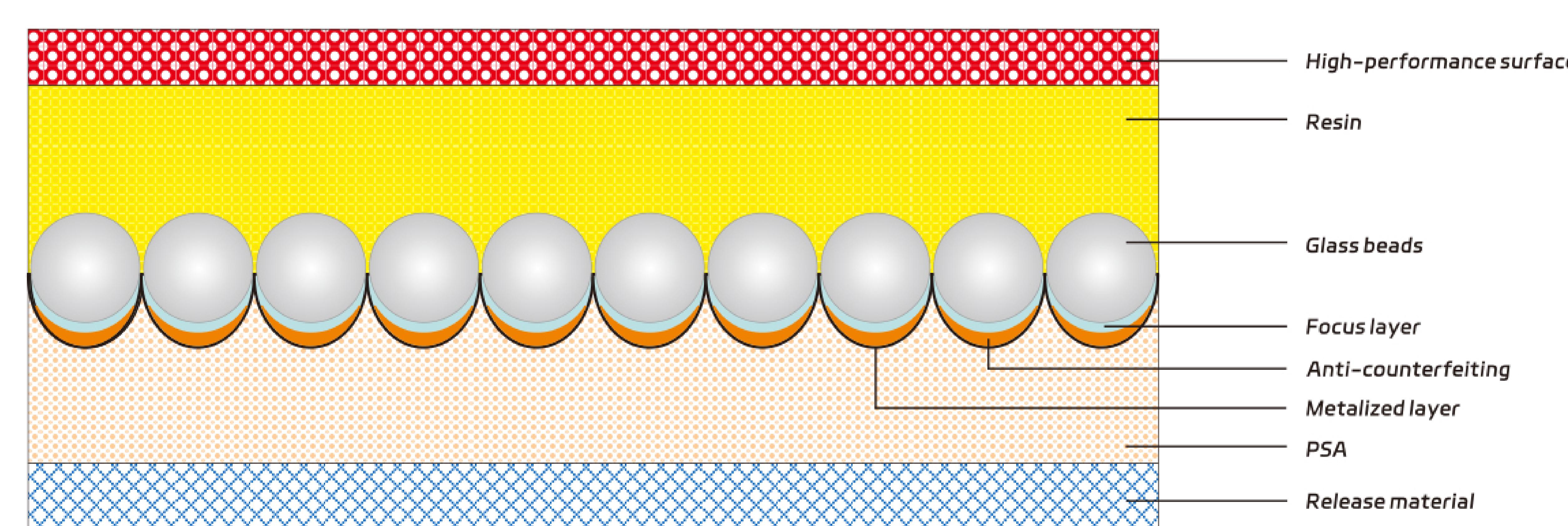
The reverse side of the reflective sheeting is pre-coated with a pressure-sensitive adhesive, safeguarded by a removable liner, ensuring effortless application onto license plate substrates.

Notably, DM 8200G reflective sheeting can be personalized with distinct graphic designs, providing a unique avenue for showcasing national attractions, events, or images. This innovative approach seamlessly merges promotional creativity with the safety attributes intrinsic to fully reflective license plates. Specialized stretch and registry control equipment are essential for processing graphic-printed sheetings.

DM's advanced technology enables the incorporation of directional positive identification images or marks within the sheeting. These markings, visible only within a specific viewing angle range, serve as a formidable deterrent against counterfeiting, exemplifying the product's security-enhancing features.

Available anti-counterfeiting method: lasermarks, watermarks, QR code, serial number, hologram, UV and etc.

Available colour	White
	○
Yellow	●
Red	●
Blue	●
Green	●
Black	●



## Retroreflection

Table 1. Coefficient of retroreflection (cd /lx/m<sup>2</sup>)

Specific coefficient of retro reflection in cd/lx per m <sup>2</sup>									
Observation angle	0.2°			0.33°			1.5°		
Entrance angle	5°	30°	45°	5°	30°	45°	5°	30°	45°
white	70	25	6	40	14	3	4	2	0.7
yellow	50	18	4	30	10	2	3.5	1.5	0.5

## Color

Table 2 Daylight chromaticity and luminance factor limits

Colour Coordinates									
	1		2		3		4		Luminance factor $\beta$
	x	y	x	y	x	y	x	y	
white	0.35	0.35	0.30	0.30	0.28	0.32	0.33	0.37	>=0.34
yellow	5	5	5	5	5	5	5	5	>=0.2; <=0.4
	0.54	0.45	0.48	0.42	0.42	0.48	0.46	0.53	
	5	4	7	3	7	3	5	4	

## Weatherability

Sample of DM8200G laminated with the standard aluminum plate and tested in accordance with ISO7591 for accelerated artificial weathering in a Xemon-arc artificial exposure unit passed the requirements of this test. This confirms retro-reflecting number plates manufactured ad described with DM8200G Series sheeting shall have a performance of approximately 5 years.

## Adhesive

Test plates as prepared above will resist peeling, scuffing and marring from recommended application surfaces, during normal use handling and resist shocking off when jabbed with a spatula at -10°F (-23°C). Prior to application, the protective paper liner can be removed from the adhesive by peeling without soaking in water or other solvents. The liner can be removed after accelerated storage for 4 hours at 150°F (65°C) under a weight of 2.5 pounds per square inch (0.18kg/cm<sup>2</sup>)

## Cleaning

For maximum service, do not use abrasive, or chemically harsh cleaners. Use the same care as is used in cleaning the paint surface on the vehicle. The license plate surface should be cleaned of normal use dirt accumulation by washing with a mild detergent and water using a soft bristle brush or cloth. Following cleaning, the plate should be thoroughly rinsed with water. To remove tar, oil, or road film, cautious use of mild solvents such as mineral spirits, turpentine, kerosene, or other solvents, commonly used on vehicle finishes may be employed. Use of aromatic solvents or ketones or solvents containing them should be avoided.

## Storage

Sheeting and roll coat inks must be stored in their original package in a cool, dry area and should be used within one year after date of receipt.