



Engineering Grade

Series 500

Retro-reflective sheeting which has a 5 year performance life.

Ideal for many types of commercial signs and decals which require conformance to the higher requirements of traffic control devices.

M-Lite™

M-Lite™ is high performance, durable retro-reflective material intended for use on permanent traffic control signs, delineators, and other traffic control devices such as signage.

It's unique microglass bead construction using **mbead™** clearview component provides an extremely high level of reflectivity.

The **M-Lite™** retro-reflective sheeting delivers high contrast reflectivity values. This provides longer distance visibility for drivers to view, recognise and manoeuvre accordingly.

M-Lite™ Series 500 Features

Properties: An enclosed lens material which has excellent retro-reflective properties and a 5 year performance level. Available in a range of 6 colours.

Application: Ideal for Traffic Signage - Fixed permanent signs, temporary road signs, barricade and directional signs. Commercial Signage - Car parks, Industrial estate signs, Architectural signs, Notice boards, Information panels and corporate identity and advertising signage.

Available in PET and Acrylic.

M-Lite™ 500 PET

None tearable, can be screen printed with PET Type inks.

M-Lite™ 500 Acrylic

Tearable, can be screen printed, Ink-Jet printed and is excellent for computer cutting and has excellent durability.

Viz Reflectives a division of the YSL Group

Unit L5, Kilshaw Street, Lamberhead Industrial Estate, Pemberton, Wigan, Lancashire WN5 8EA

T. + 44 (0) 1942 219700 F. +44 (0) 1942 225838

www.vizreflectives.com

Engineering Grade

Series 500 Product & Application Data

| Product Codes | 500 PET Series 500 Acrylic Series | White | Yellow | Red | Green | Blue | Black |
|---------------|--------------------------------------|-------|--------|------|-------|------|-------|
| | | 5101 | 5102 | 5103 | 5104 | 5105 | 5106 |
| | | 5201 | 5202 | 5203 | 5204 | 5205 | 5206 |

| Series | Type of Adhesive | Observation Angle | Entrance Angle | Minimum Coefficient of retro-reflection cd/lux/m ² | | | | | |
|--------|--------------------|-------------------|----------------|---|----------|-------|---------|--------|---------|
| | | | | ○ White | ● Yellow | ● Red | ● Green | ● Blue | ● Black |
| 500 | Pressure Sensitive | 0.2° | -4° | 80 | 50 | 14 | 9 | 4 | - |
| | | | 30° | 30 | 22 | 6.0 | 3.5 | 1.5 | - |
| 500 | Pressure Sensitive | 1° | -4° | 5 | 3 | 2 | 1 | 0.6 | - |
| | | | 30° | 2 | 1.5 | 0.6 | 0.4 | 0.2 | - |

| Roll Specifications | Width | Length | Roll Weight | Box Dimensions |
|---------------------|-------------|-------------|-------------|------------------------|
| Imperial | 48" | 50 yards | 50.6 lb | 53,5" x 7,8" x 7,0" |
| Metric | 1.22 metres | 45.7 metres | 23 kg | 135 cm x 20 cm x 18 cm |

Adhesive sheet base material

M-Lite™ reflective sheeting is suitable for use on steel, aluminium and rigid PVC base boards. For best results treated aluminium base boards are recommended. When using a plastic base board it is suggested that the adhesion is tested on a small area before application.

Adhesion temperature

The temperature of both the base board and the **M-Lite™** sheeting should be synchronized to 18°C or above, with the optimum temperature being 20° - 25°C.

Application method

In a clean environment, cut the reflective sheeting according to the board size. For large surface areas, machine application is recommended. Smaller areas can be hand-applied. After fixing in position use a squeegee to remove bubbles and wrinkles from the sheeting.

Storage

M-Lite™ reflective sheeting should be stored in a clean, well ventilated environment. The optimum temperature for storage is 15° - 30°C with a humidity of 30-60 %. Unused rolls should be tightened and re-wrapped. All rolls should be stored horizontally to avoid compression and stored out of direct sunlight.

Usage of the product

M-Lite™ reflective sheeting has a wide variety of applications. These include road, aviation and railway signage, advertising decoration and so on. Each grade of **M-Lite™** reflective sheeting offers long term reflective performance and weather resistance. For the individual performance criteria please refer to the material data sheets.

Products available

| PRODUCT DETAILS | | | | | | APPLICATION | | | | SUBSTRATE | | | PRINTABLE | |
|------------------------------|--------------|-----------|--------|------------------------|--------------------------------|-------------------|--------------------|---------------------|-------------------------|-----------|--------------|---------|-----------|------------------|
| Series | Product Code | Substrate | Colour | Product Lifespan years | BS EN 12899-1 2001 Class Ref 2 | Temporary Signage | Temporary Barriers | Advertising Signage | Fixed Permanent Signage | Tearable | Non-Tearable | CAD CUT | Ink Jet | Screen Printable |
| 300 Promotional Grade | 3100 | PET | ○●●●●● | 3 | - | ✓ | ✓ | ✓ | - | - | ✓ | - | - | ✓ |
| | 3200 | Acrylic | ○●●●●● | | - | ✓ | ✓ | ✓ | - | ✓ | - | ✓ | ✓ | ✓ |
| 500 Engineering Grade | 5100 | PET | ○●●●●● | 5 | under test | ✓ | ✓ | ✓ | ✓ | - | ✓ | - | - | ✓ |
| | 5200 | Acrylic | ○●●●●● | | under test | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| 700 Engineering Grade | 7200 | Acrylic | ○●●●●● | 7 | under test | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| 1000 High Intensity Grade | 1100 | PET | ○●●●●● | 7 | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | - | - | ✓ |
| | 1200 | Acrylic | ○●●●●● | | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ |