

Red Prismatic R3B UK Sheeting

Technical Data Sheet

Diffuse Reflective Films have been developed for use on Highways Vehicles and are fully R3B compliant to meet requirements for the required markings in this vehicle sector.

The material is cuttable on both plotters and die cut machines and is easy to apply on to flat and curved vehicle surfaces.

Product Overview

Diffuse Microprismatic Red is a high performance metallised flexible micro prismatic reflective sheeting designed for use on flexible delineator posts, delineators and vehicle markings, with excellent UV stability.

When correctly applied, the red prismatic variant complies with BS EN-12899 Class R3B-UK colour and reflectivity standards, as well as other industry regulations.

Product Construction

Diffuse Microprismatic Red consists of a high gloss, abrasion and weather resistant UV-stabilised microprismatic retroreflective construction.

Top Surface

PVC

Release Liner

Silicone coated paper release liner.

Minimum Coefficients of Retroreflectivity

Geometry of Measurement		Red
α	β_1 ($\beta_2=0$)	
20'	+5°	60
	+20°	48
	+30°	33
	+40°	6
1°	+5°	7
	+20°	6
	+30°	4
	+40°	1
1.5°	+5°	3
	+20°	2.5
	+30°	2
	+40°	#

Features

- Excellent handling and highly flexible
- High-tack adhesive for adhesion to a variety of substrates
- Durable weathering up to 5 years
- Excellent shrinkage resistance
- Excellent solvent resistance
- Excellent impact resistance

Diffuse Film Logo Pattern



Day Time Chromaticity

Day Time Chromaticity								Luminance Factor
1		2		3		4		β
X	Y	X	Y	X	Y	X	Y	
0,735	0,265	0,700	0,250	0,610	0,340	0,660	0,340	

Application

Before application, ensure the surface is free from dust, grease, or any other contaminants that could compromise adhesion. Newly painted or lacquered surfaces must be fully cured, and plastic surfaces should be emission-free. Users are advised to test the compatibility of the chosen substrate prior to installation. For contoured surfaces with high angularity, the user is responsible for determining the product's suitability and any associated risks. The sheeting should be applied to a clean, smooth, and dry surface, in ambient temperatures between 10°C and 30°C.

Storage

Store the material in a cool, dry environment, and use it within one year of receipt. Keep rolls in their original shipping cartons, and return any partially used rolls to the cartons. Rolls should always be stored in their original cartons, which include spacers to prevent contact between the roll surface and the carton, avoiding pressure marks and surface damage. Partially processed rolls must always be stored with spacers. When preparing rolls for processing, horizontal suspension is recommended. If stored vertically, no negative effects on the film's properties are expected, but ensure the roll rests on the spacer to prevent edge damage and contamination.