



kestrel
THERMOPLASTICS LIMITED

KESTRELUX ◀



REFLECTIVE THERMOPLASTIC ROAD MARKING MATERIAL

PRODUCT DESCRIPTION

Kestrelux is a high quality Reflective Thermoplastic Road Marking Material containing synthetic resins, highly refined mineral oils, aggregates, extenders, polymers, solid pigments and reflective glass beads.

Manufactured under an Integrated Management System incorporating:

BS EN ISO9001 – Quality,
BS EN ISO14001 – Environmental,
BS OSHAS 18001 – Occupational health and safety.

All materials are BSI Kitemarked to BS EN1871 and have been performance tested against the performance requirements of BS EN 1436.

PRODUCT HIGHLIGHTS / BENEFITS

- Specifically formulated to meet stringent European Road Marking Standards
- Very stable material, does not significantly discolour upon prolonged heating
- Available in both White & Yellow Reflective grades

SCOPE OF USE

Kestrelux is a high quality Thermoplastic Road Marking material designed to meet the high expectations of the modern day road user. Available in Screed, Extrusion, Spray and Profile grades. Kestrelux is an ideal marking material for all kinds of delineation and public highway marking applications.

Laboratory Tests	Value	Class
BS EN 1871 Softening Point	≥ 65°C	SP1
Luminance (β)	≥ 70 White ≥ 50 Yellow	LF4 LF2
Other Data		Value
Flash Point (Open Cup)	≥ 230°C	
Maximum Safe Heating Temp	220°C	
Application Temp: Screed / Extrusion:	180 - 200°C	
Relative Density	1.9 ± 0.2 g/cm ³ (mt / m ³)	
Coverage Rate: Screed / Extrusion:	100 – 175 m ² / mt	
Coverage rate is approximate only and depends on application speed, method, applied thickness and road surface texture.		

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Packaging & Storage

Kestrelux thermoplastic is packed in approx. 25kg heat-sealed meltable "pillow sacks" in 1 tonne lots. Each batch is covered with a polyethylene top-sheet and shrink-wrapped. Materials should be stored under cover in dry conditions and if stored correctly will have a shelf life of > 1 year.

The pillow sacks contain ventilation holes to prevent bursting and it is important that the material is stored under cover to prevent ingress of moisture. Wet material poses a significant Health and Safety risk to operators as it can "foam" excessively and overflow from the pre-heater.

Health & Safety Information

Please refer to separate H&S Data Sheet. General information for all products is contained on the reverse of the pallet weight sheet.

Surface Preparation

The surface should be dry, free from dust, dirt, grease or oil and any other detritus material. The road surface temperature should be above 5°C. Ideally existing markings should be removed prior to application.

Kestrelux may be applied over existing thermoplastic markings provided that they are in a sound condition and will not be easily removed from the road surface.

Kestrelux should not be applied over old paint markings.

On worn bituminous and concrete surfaces, a suitable tack coat primer should be used in accordance with the manufacturer's instructions prior to application.

It should be noted that thermoplastic road markings laid on new bituminous surfaces could suffer from "bitumen carry-over" leading to discolouration and masking of the road markings.

Application Information

Kestrelux is supplied in 25kg (approx.) low melt polyethylene bags that may be melted with the product (depending on application method, not recommended for spray materials).

Place a few bags of product into the preheater, fitted with mechanical agitation and temperature control devices, and heat up to approaching the stated application temperature.

When this initial material is molten the remainder of the preheater may then be filled (heating a small amount initially, increases the rate of heat transfer and reduces heating time for a full preheater of material).

When the material has been brought to the recommended temperature, and has been thoroughly mixed,

it can then be transferred to the application equipment.

DO NOT EXCEED the maximum safe heating temperature as this is potentially dangerous and could lead to flashing, discolouration of the material and severe deterioration of the binder.

Surface applied materials recommended by Kestrel Thermoplastics should be used. Application rates vary depending upon the grade of drop-on material to achieve optimum performance. Typical application rates are $400 \pm 100 \text{ g/m}^2$.

Use of alternative materials may reduce the performance characteristics of Kestrelux products.

Kestrelux products should be applied at the recommended thicknesses as follows:

1) SCREED	3.0 – 5.0 mm
2) EXTRUSION	3.0 – 5.0 mm
3) SPRAY	1.5 – 2.5 mm

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