

General Description **UN-PL-UV-Blocker** is a 'UV LIGHT BLOCKING' additive manufactured by United Nanotech Products Ltd. It is an inorganic materials based product specially developed for UV rays protection of plastic materials against photolytic degradation. It helps to improve weather resistance and outdoor durability, and protect against premature color fading. The product meets **REACH** specification.

Composition **UN-PL-UV-Blocker** is described chemically as a PE Wax based product with a combination of nano- and micron- size particles of metallic oxides and surfactants.

Typical Properties **UN-PL-UV-Blocker** has the following typical properties:

Property	Analysis
Appearance	Powder
Colour	White
Odour	Not specific
Specific gravity	0.98– 1.02
Solid %	~30%

UV-blocking Parameters **UN-PL-UV-Blocker** has the following UV-blocking parameters.

UV	Wave length (nm)	Blocking %	Test Method
UV-A	320-380	98.2	ASTM E424
UV-B	280-320	99.1	ASTM E424
UV-C	200-280	99.9	ASTM E424

Addition **UN-PL-UV-Blocker** should be added under good stirring at the dispersion stage. Good homogeneous distribution must be observed.

Use Level The recommended use level of **UN-PL-UV-Blocker** is normally in the range 0.5 – 2.0% based on the total weight of the finished product.

Compatibility **UN-PL-UV-Blocker** is compatible with most of the polymer based raw materials. Compatibility of the above product with the application should always be checked before use.

Storage Conditions **UN-PL-UV-Blocker** should be stored at temperatures within the range 5-55°C. Storage conditions should also be in conformance with applicable legal, fire and insurance regulations.

UN-PL-UV-Blocker



Shelf Life

Under correct storage conditions the normal shelf life for this product is 12 months.

Safety Data Sheet

MSDS is available upon request.