

# POLYBATCH® UVR 95

## Product Description

POLYBATCH® UVR 95 is an UV Stabiliser masterbatch for the protection of thin LDPE, LLDPE or HDPE film or tapes. Polyethylenes are sensitive to degradation by UV light and must therefore be protected when used outdoors. The degradation speed depends on climatic conditions, thickness, polymer type and opacifying or other pigments or additives formulated into the resin.

### COMPOSITION

Polymeric steric hindered amine in a low melt LDPE. Each lot is carefully controlled for exact additive content; a Certificate of Conformity is available upon request.

## General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Uses	• Masterbatch		
Processing Method	• Blown Film • Cast Film	• Extrusion Blow Molding • Injection Molding	• Pipe Extrusion • Profile Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)
Specific Gravity	0.932	0.930 g/cm <sup>3</sup>
Bulk Density	34.3 lb/ft <sup>3</sup>	550 kg/m <sup>3</sup>
Moisture Content	< 1500 ppm	< 1500 ppm

## Usage

Addition rates depend on the climatic conditions of the country in which the film is to be exposed. Global radiation is expressed in kLy.

- Central Europe: 90 kLy
- South of France: 140 kLy
- Florida, Indonesia: 160 kLy
- Sicily: 170 kLy
- Saudi Arabia: 220 kLy

Recommended addition rate for POLYBATCH® UVR 95 :

Thickness in $\mu$	80 kLy	100 kLy	120 kLy	140 kLy	160 kLy	180 kLy
30	2%	3%	4%	5%	6%	7%
50	1.5%	2%	2.5%	3%	3.5%	4%
80	1%	1.5%	2%	2.5%	3%	3.5%

## Important

Because of so many factors influencing UV stability, it is important to know that the values indicated in the tables represent the performance of POLYBATCH under IDEAL TEST CONDITIONS and can ONLY be used as a guideline !

If POLYBATCH® UVR 95 will be used in films that have to be sealed, seal properties must be checked cautiously.

## Remark

POLYBATCH® UVR 96 is the double concentrated UVR 95 !

## Regulatory

POLYBATCH® UVR 95 is approved for films with food contact up to 3 %. Detailed information is available upon request.

## Packaging & Storage

POLYBATCH® UVR 95 is packed in 25 kg polyethylene bags on shrink-wrapped pallets. POLYBATCH® UVR 95 can be stored up to maximum 6 months at 25°C for optimum performance. Higher temperatures might reduce storage time considerably.