

## TECHNICAL DATA SHEET

# MAXITHEN<sup>®</sup> PP2AA9497UVFRC1 Yellow

Combined colour/flame retardant/light stabilising masterbatch  
for polypropylene injection moulding applications

DESCRIPTION:	This product is a combinations containing colour, (and) flame retardant and light stabilisers within one pellet. With this system, the interactions between UV-stabilizers and flame retardants can be reduced in a very high degree.
ACTIVE AGENT:	Highly effective system of UV-stabilizers and flame retardants
CARRIER MATERIAL:	Polypropylene
APPLICATION:	MAXITHEN <sup>®</sup> PP2AA9497UVFRC1 is used for the production of PP – thick wall articles in injection moulding and extrusion. A typical application is e.g. Stadium seats.
APPLICATION AREA:	For areas with sun radiation energy of 110-160 kLy/year.
DOSAGE	10% recommended value
COLOUR:	RAL 1016
SERVICE LIFETIME:	Our product was designed according to sun radiation of geographical area as indicated above in order to ensure a service life for at least 5 years. Colour fastness and fade resistance is designed to EN13200-4 (Spectator facilities - Part 4: Seats) in order to have colour stability and mechanical stability according to the above mentioned service life. Our product recommendation has been derived in compliance to our database of test evaluations elaborated on basis of artificial weathering normative standard of ISO 4892-2, using light source of filtered xenon arc light with irradiance of 0,5W/m <sup>2</sup> (340nm) according to best practice test parameters, complying with this normative standard. According to the chosen polypropylene grade, after light energy exposure of 8,3GJ/m <sup>2</sup> , matting of the final article surface, especially on exposed parts of the final article, might appear.
FIRE FIGHTING:	Normative Standard Italian Class C1 according to test certificate
DISCLAIMER:	<p><b>PROCESSING:</b> Gabriel-Chemie does not accept any responsibility or liability arising out of problems associated with the mixing, processing and moulding of the above named product that results in defective mouldings, or that are aesthetically incorrect as Gabriel – Chemie has no control over any subsequent processing of our product.</p> <p>We therefore urgently recommend trials with our product to make sure that the process-ability will conform to your production process and quality expectations. Our product recommendation has been obtained from laboratory tests and/or practical experiences in similar cases of application and was not subject for testing at this specific case.</p>

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### ADDITIONALLY

Some further used additives may reduce the thermal stability.

We generally recommend good ventilation when processing flame retardants. Flame retardants are generally thermally unstable and should be protected as far as possible against excessive heat and long residence time in the extruder. In all cases the melt temperature has to be below 250°C.

### FLAME RETARDANT:

Combinations with other flame retardant additives, coming from other Masterbatches or flame retardant polymer compounds, have to be avoided.

If the machine is to be intentionally switched off for any reason or left for any length of time in a heated state with our product in situ, we strongly advise immediate purging with natural polymer first.

Serious corrosion of the machinery will occur if the decomposition Temperature is exceeded.

### LIGHT STABILISATION:

The service life of the final article is decisively influenced by the quality of the polymer which has to be stabilized. Besides process-related recycling, the use of recycled polymers is not allowed and can deteriorate the service life expectation.

**STORAGE CONDITIONS:** Storage time 36 months maximum. The product should be stored in a cool, dry location and be protected from sunlight and moisture. Once opened, bags should be kept tightly closed in order to prevent the absorption of moisture from the air.

**FORM OF SUPPLY:** Masterbatch in pellet form, packed in UV stabilised 20/25 kg PE bags, on pallets, covered with a UV stabilised hood (standard packaging). For colouring and stabilising the packaging material, a combined MAXITHEN<sup>®</sup> colour/UV/AO stabiliser masterbatch has been used to protect both, the packaging material as well as the content.

All information in this MAXITHEN<sup>®</sup> Product Information has been obtained from laboratory tests under ideal and closely controlled conditions. The information should act as a guide only and should not be construed as guaranteeing specific properties or suitability for a particular application. Therefore, trials by customers using their polymers and their conditions are highly recommended.