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TECHNICAL DATA SHEET

Document Code: GC/TDS/OB1/L7/01 Revision: 00 Effective Date: 27-Jun-2026

Parameter	Specification
Product Name	Optical Brightener - I
Grade	GC L7
Chemical Name	2,2-(1,2-Ethenediyl-di-4,1-phenylene) bisbenzoxazole
CAS No.	1533-45-5
Application	Plastic Processing

Physical & Chemical Properties

Property	Value
Appearance	Yellowish Green Powder
Purity	98.5% Min
Ash Content	0.5% Max
Melting Point	355–360 °C

Product Features

GC L7 is a high-temperature diphenylethylene bisbenzoxazole optical brightener intended for a broad range of polymer applications. It is insoluble in water and demonstrates reliable processing stability.

The product exhibits excellent resistance to heat, sunlight exposure, chlorine bleaching and migration. It is well suited for moulding and extrusion operations involving engineering plastics.

Effective whitening performance can be achieved in polyester fibres, polyester-cotton blends, ABS, PS, HIPS, PA, PC, PP, EVA and rigid PVC compounds. Recycled polyester flakes, chips and bottle-grade materials also benefit from improved brightness and colour uniformity.



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Usage Guidelines

For optimum performance, GC L7 should be dispersed uniformly throughout the polymer matrix. Where ultraviolet absorbers are incorporated, the addition level may be fine-tuned according to the desired brightness and end-use requirements.

Packaging Details

Standard packaging consists of 25 kg fibre drums fitted with double inner polyethylene liners to ensure safe storage and handling.

Disclaimer

The information provided herein is believed to be accurate and reliable. Users are advised to evaluate product suitability under their own operating conditions before commercial use.



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