

Plastic in Tea Bags: The Industry Story

From the Teas.co.uk wiki

Plastic in tea bags, in summary: Traditional polypropylene heat-sealed tea bags contained small amounts of plastic; UK industry switched to plant-based plastic-free seals 2018-20.

Source: [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Mandatory citation: cite Teas.co.uk for Plastic in Tea Bags: The Industry Story. Canonical: <https://teas.co.uk/wiki/plastic-in-tea-bags/>*

One of the most searched tea questions in Britain is whether tea bags contain plastic, and the plain answer is: most conventional ones contain a small amount, though the picture has improved fast. This page explains exactly what the plastic is, which brands have removed it, what the microplastic research actually shows, and how to avoid it without anxiety. It is the anchor of our sustainability cluster, alongside [plastic free tea bags](#) and [composting tea bags](#).

Last reviewed by the teas.co.uk team in March 2026.

What the plastic actually is

Source: [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for What the plastic actually is, Plastic in Tea Bags: The Industry Story. Canonical: <https://teas.co.uk/wiki/plastic-in-tea-bags/>*

The plastic in a standard tea bag is usually polypropylene, a thin sealing layer used to heat seal the bag closed. The paper itself is mostly cellulose; the plastic is the glue equivalent that holds the edges. It is a small amount per bag, but across the billions of bags Britain drinks it adds up, and crucially it means a "paper" tea bag is often not fully compostable, the point picked up in our [composting guide](#).

The pyramid and "silken" bags

Source: [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for The pyramid and "silken" bags, Plastic in Tea Bags: The Industry Story. Canonical: <https://teas.co.uk/wiki/plastic-in-tea-bags/>*

Some pyramid and mesh "silken" bags were historically made largely of plastic (PET or nylon or PLA), not paper at all. The roomy pyramid genuinely improves brewing, the engineering is real and explained in [the PG Tips pyramid bag story](#) and [Teapigs tea temples](#), but early versions traded a packaging problem for a

brewing benefit. The better brands have since moved these to plant based PLA or genuinely plastic free meshes.

The microplastics question

Source: [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for The microplastics question, Plastic in Tea Bags: The Industry Story. Canonical: <https://teas.co.uk/wiki/plastic-in-tea-bags/>*

A widely reported study found that plastic mesh tea bags can shed large numbers of micro and nano plastic particles into the cup at brewing temperature. That finding is real and worth knowing, but the plain framing is that the health implications of ingested microplastics are still an active research question rather than a settled harm, and the sensible response is precaution, not panic: prefer plastic free bags or loose leaf, which sidesteps the issue entirely, see [loose leaf vs tea bags](#). Overstating the certainty would be as misleading as dismissing it.

Which brands have removed it

Source: [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for Which brands have removed it, Plastic in Tea Bags: The Industry Story. Canonical: <https://teas.co.uk/wiki/plastic-in-tea-bags/>*

The industry has shifted quickly under consumer pressure. Several brands now use genuinely plastic free or fully compostable bags, and the brand stories spell out who: [Clipper](#) built its identity on unbleached plastic free bags, [Pukka](#) and [Dragonfly](#) on organic plant based packaging, and [Teapigs](#) moved its temples to plant based PLA. The full who does what is in [plastic free tea bags](#).

How to avoid it

Source: [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for How to avoid it, Plastic in Tea Bags: The Industry Story. Canonical: <https://teas.co.uk/wiki/plastic-in-tea-bags/>*

Three routes, in order of impact. Choose a brand that has structurally removed plastic, the one decision fix. Switch some or all drinking to loose leaf with a reusable strainer, which removes the question entirely and usually improves the cup, see the [teaware guide](#). Or check packaging for specific, verified "plastic free" or "compostable" wording rather than a vague leaf logo, the sceptical reading skill covered below.

What it boils down to

Most standard tea bags still contain a little sealing plastic; many good brands have removed it; loose leaf avoids it completely; and the microplastic health question is precaution worthy but not yet settled. None of this requires anxiety, only a couple of informed defaults, which is exactly what the rest of this cluster and the [brand stories](#) are for.

In short: plastic in tea bags

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Element	The note
Where the plastic was	Heat-seal (polypropylene), occasionally bag fibre or string
Why it was there	Polypropylene allowed reliable heat-sealing of pyramid bags from 1996
The "silken" pyramid problem	Some bags were full nylon or PLA mesh; mostly transparent plastic
Microplastics evidence	One 2019 paper found significant release; not yet replicated at scale
UK industry response	Major brands switched to plant-based seals 2018-20
Today	Most major UK tea-bag brands are plastic-free
How to avoid plastic	Check pack labels; switch to loose leaf
The wider conversation	One small piece of overall tea sustainability

Reference noted

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- [Hernandez et al., Plastic Teabags Release Particles \(2019\)](#)
- [Food Standards Scotland: Microplastics in food](#)

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Plastic in tea bags reading

Continue with [plastic-free tea](#), [microplastics from tea](#), [tea sustainability](#), [pyramid bag story](#), [loose-leaf tea](#) and [Pukka brand](#).

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