

NEW MICROPLASTICS REFERENCE MATERIALS

Featuring the most common microplastics encountered in analysis.

Let's turn the tide on microplastics – together.

LGC Quality | ISO 17034 | ISO/IEC 17025 | ISO 9001



1-800-267-8103 • www.chromspec.com • tech@chromspec.com

Microplastics: A growing concern

Microplastics are small solid plastic particles created from the breakdown and use of larger plastics in daily life.

Once released into the environment they persist and bioaccumulate leading to negative impacts to environmental and human health. Microplastic contamination is rising in the environment, food, pharmaceuticals, and humans due to widespread plastic and microplastic use.

As concerns over health impacts grow, researchers, testing laboratories and regulatory bodies face the daunting challenge of testing for microplastics amidst the early development of regulations and methodologies. Reference materials and research chemicals are vital for advancing microplastic understanding and developing testing methods and regulations.

Sources of microplastics



Cosmetics



Buildina

materials

Plastic packaging



Paints.

coatings

& inks

Fertilisers &

plant protection

products



sectors

Medical

devices



Detergents &

maintenance products



Clothing

Introducing our NEW Microplastic Reference Materials

Have confidence in your results

Certified to ISO/IEC 17025 and ISO 17034 and are accompanied by a comprehensive certificate of analysis.

Improve efficiency

Includes both fibres and spherical particles - enabling testing of a full spectrum of microplastics.

Reliably contribute to environmental and consumer safety

Pure polymers with specific particle size distribution for targeted testing:

- Enables targeted testing to identify specific microplastic types in environmental matrices.
- Accurate, non-biased investigation on the true harmful effect of specific plastics without interference from other materials.
- Simplified and reliable sample preparation.
- Facilitates development of regulatory and legal frameworks to safeguard environmental and human health.



Microplastic reference materials portfolio

Part Code	Part Description	Pack Size (mg)
DRE-MP-PE-20	Microplastic Polyethylene PE Nominal 20 μ m (Dv50 = 40 μ m; Dn50 = 20 μ m)	50
DRE-MP-PE-35	Microplastic Polyethylene PE Nominal 35 μ m (Dv50 = 80 μ m; Dn50 = 3 μ m)	50
DRE-MP-PE-65	Microplastic Polyethylene PE Nominal 65µm (Dv50 = 130µm; Dn50 = 3µm)	50
DRE-MP-PE-50	Microplastic Polyethylene PE Nominal 50µm (Dv50 = 120µm; Dn50 = 3µm)	50
DRE-MP-PE-100	Microplastic Polyethylene PE Nominal 100µm (Dv50 = 160µm; Dn50 = 3µm)	50
DRE-MP-PP-20	Microplastic Polypropylene PP Nominal 20µm (Dv50 = 40µm; Dn50 = 6µm)	50
DRE-MP-PP-35	Microplastic Polypropylene PP Nominal 35µm (Dv50 = 120µm; Dn50 = 3µm)	50
DRE-MP-PP-65	Microplastic Polypropylene PP Nominal 65µm (Dv50 = 140µm; Dn50 = 3µm)	50
DRE-MP-PP-50	Microplastic Polypropylene PP Nominal 50 μ m (Dv50 = 110 μ m; Dn50 = 4 μ m)	50
DRE-MP-PP-100	Microplastic Polypropylene PP Nominal 100 μ m (Dv50 = 180 μ m; Dn50 = 3 μ m)	50
DRE-MP-N66-15	Microplastics Nylon 66 fibres Nominal 15µm, 6mm long	50
DRE-MP-PET-10	Microplastics Polyester PET fibres Nominal 10µm, 6mm long	50



The microplastic crisis is more than an environmental issue – it's a multidisciplinary challenge requiring urgent innovation.

From ocean depths to Arctic ice, microplastics are infiltrating ecosystems and accumulating in alarming ways.

For researchers, this is a frontier of discovery:

How can we detect, track, and mitigate microplastics? What technologies can stop them at the source or reverse their damage?

If you're tackling this issue, we want to hear from you and explore how we can support your research. Let's lead the way to solutions. <u>Share your research today</u>.







1-800-267-8103 • www.chromspec.com • tech@chromspec.com