POLYPEARL™

POLYPEARL™ ME SERIES

Effective high-performance additive
Optimizes plastics, masterbatches, paints and varnishes

The PMSQ microbeads of Polypearl™ ME series have outstanding chemical and thermal resistances as well as excellent optical properties.

Good compatibility and easy incorporation enable a wide field of application. The micropowder stands out with a narrow, classified particle size distribution without oversize and undersize top cut and a low variation coefficient (CV).

Polypearl™ ME series fulfils the requirements of the most important regulatory aspects and has food approval.

COMPOUNDS & MASTERBATCHES

- **Highly effective light diffusion agent** – PC, PMMA, PA, PVC, PS etc
  Use in profiles, displays, LCD
- **Organic antiblocking additive** – PE, PP, BOPP, BOPET etc
  Use in films and high gloss foils, no haze, low COF, hot slip

COATINGS

- Antiblocking / spacer
- Light diffusor
- Anti-squeak coatings
- LED encapsulation
- Structure, softfeel
- Scratch resistance
- Matting
- Lubricant / Slip

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POLYPEARL™

POLYPEARL™ ME SERIES

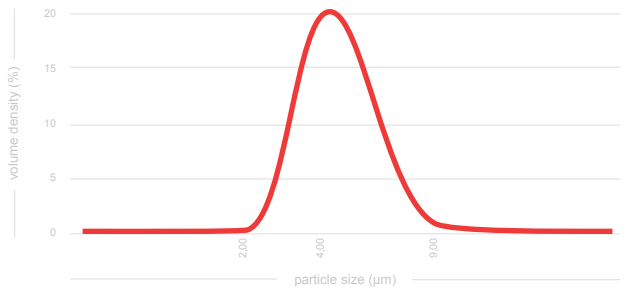
PMSQ MICROBEADS

ADVANTAGES

- ✓ high temperature resistance
- ✓ perfect chemical resistance
- ✓ excellent optical properties / light diffusion
- ✓ narrow, homogeneous particle distribution
- ✓ outstanding flow- and dispersing properties
- ✓ tasteless and odourless
- ✓ food approval, regulatories and listings
- ✓ highly effective at low dosage levels
- ✓ solvent resistance / no swelling

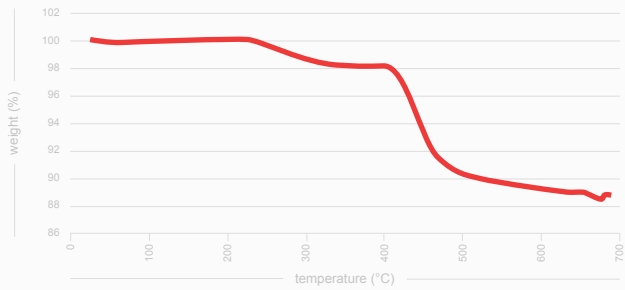
Typical particle size distribution Polypearl ME 4.0

narrow, homogeneous particle distribution for consistent performance



TGA Polypearl ME

excellent temperature resistance for the use in many polymers



TECHNICAL DATA

Basis: Polymethylsilsesquioxane (PMSQ)

Appearance: white, free-flowing powder

CAS-No: 68554-70-1

Refractive index: 1.42

Density: 1.32 g/cm^3

Melting point: > 400°C

TYPES & SIZES

ME 1.0	1.0 µm
ME 2.0	2.0 µm
ME 4.0	4.0 µm
ME 5.0 W	5.0 µm
ME 6.0	6.0 µm
ME 8.0	8.0 µm
ME 10.0	10.0 µm

This update supersedes all previous versions
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