



# Spheromers<sup>®</sup> CA

## Chemical description

Spheromers<sup>®</sup> CA are perfectly spherical monosized beads made of cross-linked polymethyl methacrylate (PMMA).

## Main use

Spheromers<sup>®</sup> CA are used as functional additives in a wide range of applications, including architectural and industrial coatings, thermoplastic masterbatches, engineering compounds, technical ceramics and adhesives. Spheromers<sup>®</sup> CA are available in 7 different particle sizes

## Typical values

### **Spheromers<sup>®</sup> CA6 CA10 CA15 CA20 CA30 CA40 CA60**

D90 [μm]:	6	10	15	20	30	40	60
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CV [%]: <5*
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Refractive index: 1.476 - 1.485
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Oil adsorption [ml/g]: 0.212
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Solubility: inert in most solvents
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Particle density [g/cm <sup>3</sup> ]: 1.2
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Bulk density [g/cm <sup>3</sup> ]: 0.6
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Heat resistance [°C]: 260 - 360**
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Tg (glass transition temperature [°C]): ~130
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\*CV % = (standard deviation/average bead diameter) x100

\*\*TGA measurement: Decomposition at 360 - 390 °C.

## Product properties

The physical and chemical behaviour of Spheromers<sup>®</sup> CA is the same as for PMMA in general including excellent transparency, good surface hardness, temperature resistance and UV-stability.

The combination of chemical composition and perfect spherical shape ensures tough beads that remain unchanged during normal processing conditions. The extremely narrow particle size distribution ensures homogeneous and reproducible properties.

## Applications

Spheromers<sup>®</sup> CA can be used as pore former to create homogenous pore size and targeted pore diameter in porous ceramics.

Spheromers<sup>®</sup> CA can also be used as spacer in adhesives and other applications due to the extremely narrow particle size distribution.

The different Spheromers<sup>®</sup> CA sizes can be blended and also be combined with other additives to achieve the required properties.

## Storage and handling

Storage stability is at least 5 years from the date of production when stored dry at temperatures below 25 °C in closed containers. Please close the innerliner of open boxes to avoid moisture pick-up and contamination.

## Packaging

Products are available in a 25 kg cardboard box with polyethylene innerliner and 450 kg (18 boxes) on each pallet.

## Material safety

Please consult the Safety Data Sheet

## Regulatory information

Please contact us for details.

[polymerbeads.lamberti.com](http://polymerbeads.lamberti.com)

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