



Spheromers® CA for coatings

Chemical description

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

Main use

The extremely narrow particle size distribution ensures homogeneous and reproducible properties for your coatings. Spheromers® CA are available in 7 different particle sizes and smooth to coarse textured coatings can be designed accurately and reproducibly by choosing the ideal particle size.

Typical values

Spheromers®	CA6	CA10	CA15	CA20	CA30	CA40	CA60
D90 [µm]:	6	10	15	20	30	40	60
CV [%]:	<5*						
Refractive index:	1.476 - 1.485						
Oil adsorption [ml/g]:	0.212						
Solubility:	inert in most solvents						
Particle density [g/cm ³]:	1.2						
Bulk density [g/cm ³]:	0.6						

*CV % = (standard deviation/average bead diameter) x100

Product properties

The combination of chemical composition and perfectly spherical shape ensure tough beads that contribute to impart burnish resistance, abrasion, polishing and scratch resistance.

Spheromers® CA has a refractive index that matches resin systems for clear coatings and is ideal for formulation of highly transparent varnishes without any milkiness or haze even for dark substrates.

Applications

Spheromers® CA are suitable for a variety of coatings applications like plastic, film/foil, parquet, wood and metal/coil and can be used in both waterborne, radiation-cured, moisture curable as well as in solvent-based coatings. The choice of suitable bead size for a matting additive largely depends on the dry film thickness of the coating being formulated.

The different Spheromers® CA sizes can be blended and also be combined with other fillers or matting agents to achieve the required opacity, matting and structure.

Recommended addition level is 1 - 12 % depending on bead size and application.

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

This information and our technical recommendations, if any, both verbal and in writing, are given to the best of our knowledge, without any express or implied warranty, e.g. regarding their fitness for a specific purpose. Each user of our products is the sole responsible for assessing and ensuring compliance with all legal regulations including intellectual property laws and necessary certifications and authorizations with respect to the use, combination and processing of our products. Our technical recommendations do not release the user from the obligation to check its validity and to test our products as to their suitability and fitness for the intended processes and uses. The application, use and processing of both our products and the products manufactured by the user (on the basis of our technical recommendations, if any) are beyond our control and, therefore, the user is the sole responsible for them. Detailed information and instructions on handling the products and cautions to be observed in the use of them are available in our relevant Safety Data Sheet.