

# Polymer Beads for Matting, Haptics and Visual effects in Coatings & Plastics

## **Coatings: Durable, matte finish**

Our POLYMER BEADS are available in different particle sizes and compositions and enable you to tailor the appearance and performance of your coating. Achieve gloss levels from sateen to ultra-matte, and textures from smooth to coarse. For clear coats, obtain a natural appearance and transparent look. Enhance surface properties like scratch and burnish resistance.

Lamberti offers two product lines of polymer beads: Spheromers® CA monosized acrylic beads with high thermal resistance, and Decosphaera® PU beads with superior flexibility and toughness. A pigmented range of Decosphaera® is also available for multicolor, 3D, and special effects, as well as a BIO-based version.

## **Coatings: Texture and haptic properties**

Customize the haptic effects of your coating surface according to your application requirements by balancing film thickness and bead diameter. Formulate anything from uniformly smooth surfaces with beads of 3-6 µm to coarse-textured surfaces using beads of diameter up to 60 µm.

With Decosphaera® you can add soft feel to your paint surface from velvety smooth to rubbery. The controlled particle size distribution (PSD) of Decosphaera® ensures a consistent surface profile and the desired softness to the touch. The extremely narrow particle size distribution (PSD) of Spheromers® CA enables smooth to rough surfaces with accurately designed and reproducible textures.

## **Applications (WB, SB, UV/EB)**

- Flooring applications (wooden & resilient)
- Furniture coating
- Coil coating
- Paper foil coating
- Inks
- Leather finishing
- Architectural coating
- Plastics (masterbatches)

## **Plastics: Light diffusion and anti-blocking**

Spheromers® CA can be added to a wide range of plastics. The addition of monosized beads to engineering plastics results in effective scattering and diffusion of light without significantly reducing light transmission. In film extrusion applications, Spheromers® CA can be added to create matte films with an even surface and well-defined scattering of light or used as anti-blocking agents to prevent film stickiness.

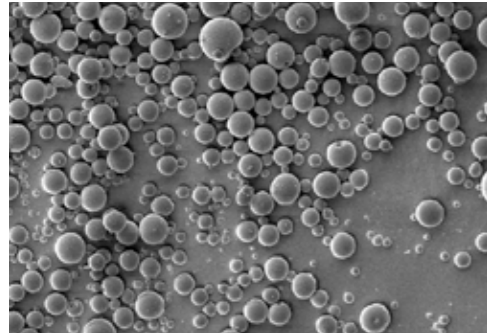
## **Spheromers® and Decosphaera® supply form**

- Spheromers® : 100% dry powder
- Decosphaera® : 100% dry powder
- Decosphaera® Wet: 60-75% wet cake
- Adimatt: 30-40% liquid suspension

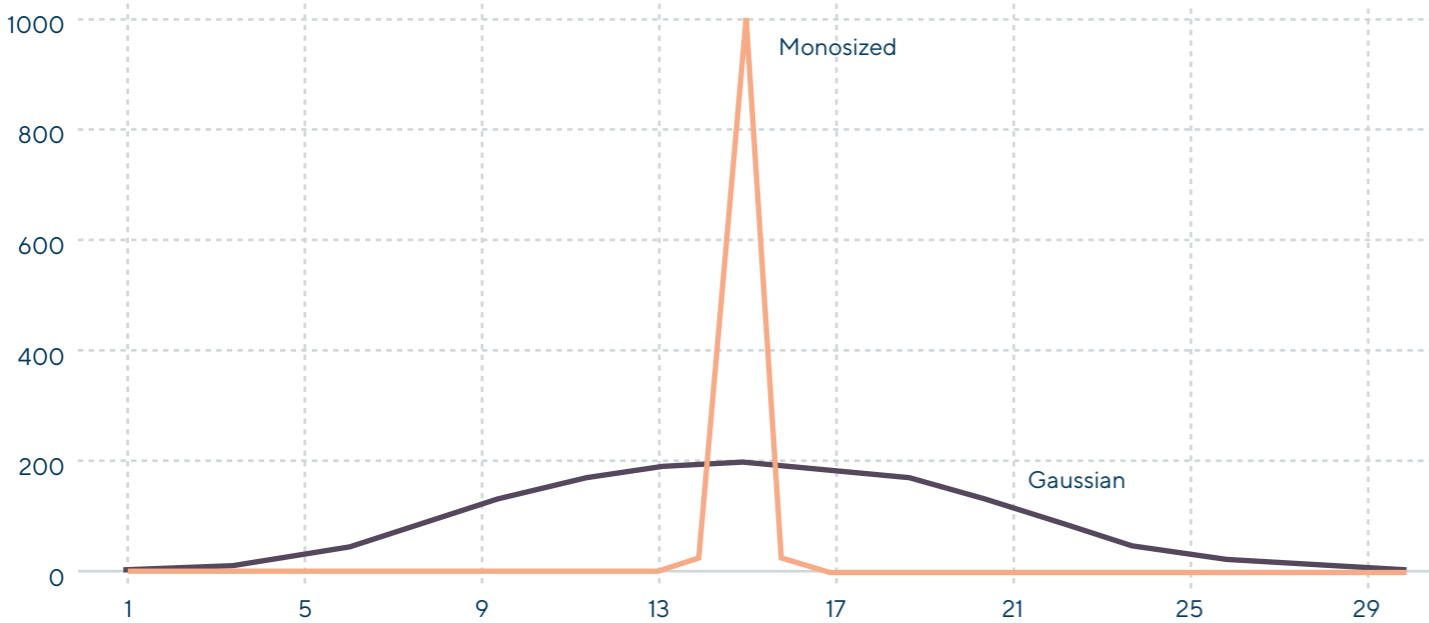
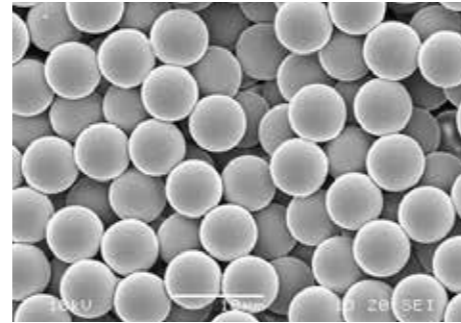


# We boost your success with innovative solutions

Decosphaera® | Polyurethane Gaussian Distribution



Spheromers® | Acrylic Monosized



Spheromers® Monosized Acrylic Beads			
Grade	D(90) µm	Chemistry	Performance
CA 6	6	Crosslinked PMMA	Extra fine beads for smooth feel and outstanding durability
CA 10	10	Crosslinked PMMA	Fine beads for smooth feel and outstanding durability
CA 15	15	Crosslinked PMMA	Medium size beads for fine texture and outstanding durability
CA 20	20	Crosslinked PMMA	Medium size beads for fine texture and outstanding durability
CA 30	30	Crosslinked PMMA	Coarse size beads for coarser texture and outstanding durability
CA 40	40	Crosslinked PMMA	Coarse size beads for coarser texture and outstanding durability
CA 60	60	Crosslinked PMMA	Coarse size beads for coarser texture and outstanding durability

Decosphaera® Transparent Polyurethane Beads			
Decosphaera®	Form	D50 µm	Performance
TR 3 EF	Dry powder	3-4	Soft, extra fine beads for soft touch and excellent burnish resistance
TR 8-20	Dry powder	5-8	Soft, fine beads for soft touch and excellent burnish resistance
TR 7 SC	Dry powder	5-8	Soft, extra fine beads for ultra soft touch and excellent burnish resistance
TR 15 F	Dry powder	11-15	Soft, medium-sized beads for soft touch and excellent burnish resistance
TR 30 F	Dry powder	22-30	Soft, coarse beads for soft touch, excellent burnish resistance and textured effect
TR HT 8-20	Dry powder	5-8	Soft, fine beads for soft touch and excellent burnish resistance. Special modification with higher thermal stability
TR HT 3 EF	Dry powder	3-4	Soft, fine beads for soft touch and excellent burnish resistance. Special modification for high thermal stability.
TR 50-250	Dry powder	40-50	Soft, coarse beads for soft touch, excellent burnish resistance and textured effect
8 TR BiO	Dry powder	5-8	Fine, soft beads with high renewable content (>50%)
Adimatt 8FT	Liquid suspension (36%sc)	5-8	Soft, fine beads for soft touch and excellent burnish resistance, for WB systems

Decosphaera® Coloured Polyurethane Beads			
Grades	Form	D50 µm	Performance
WHITE 15F	Dry powder	11-15	Soft, medium-sized, white beads for soft touch, excellent burnish resistance and fine texture
WHITE 30F	Dry powder	22-30	Soft, coarse, white beads for soft touch, excellent burnish resistance and fine texture
WET WHITE 30F	Wet cake (70±2%sc)	22-30	Soft, coarse, white beads for soft touch, excellent burnish resistance and fine texture, for WB systems
WHITE 50-250	Dry powder	45-65	Soft, coarse, white beads for soft touch, excellent burnish resistance, textured effect
WET WHITE 50-250	Wet cake (70±2%sc)	45-65	Soft, coarse, white beads for soft touch, excellent burnish resistance and textured effect, for WB systems
DEEP BLACK 15F	Dry powder	11-15	Soft, medium-sized, black beads for soft touch, excellent burnish resistance and fine texture
DEEB BLACK 30F	Dry powder	22-30	Soft, coarse, black beads for soft touch, excellent burnish resistance and fine texture
RED PERMANENT 15F	Dry powder	11-15	Soft, medium-sized, red beads for soft touch, excellent burnish resistance and fine texture
YELLOW PERMANENT 15F	Dry powder	11-15	Soft, medium-sized, yellow beads for soft touch, excellent burnish resistance and fine texture
BLUE 15F	Dry powder	11-15	Soft, medium-sized, blue beads for soft touch, excellent burnish resistance and fine texture

The combination of the right particle size, polymer chemistry, and—when it comes to Decosphaera®—the availability of pigmented grades, enables outstanding haptic effects, decorative finishes, and high-level performance across a wide range of applications. Our beads help you achieve unique surface aesthetics and functionality for premium paints.

## Current Market



### Wood Coating

- Flooring and furniture
- Matting/natural appearance & no burnish



### Automotive

- Matting & good black jetness
- No burnish



### Architectural Paint

- Matting
- Good dry and wet rub



### Plastics (Masterbatch & Compound)

- Light Diffusion
- Anti blocking



### Coil Coating

- Matting / Texturing



### Cosmetics

- Matting / soft touch /UV screen



### Natural and Synthetic Leather

- Matting & good black jetness
- Good flex & scratch resistance