

# PMMA Microspheres

## Product Data Sheet

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### Product Description:

PMMA microspheres are utilized for many of the same purposes as polystyrene beads. They are utilized as standards or markers, in immunoassays, and by being coated with protein for use in research and diagnostic tests.

The density of PMMA, 1.19g/ml, is higher than the density of polystyrene. Because PMMA is more dense than polystyrene, PMMA microspheres are a little easier to centrifuge in purification processes. Another difference between the two polymers is that PMMA microspheres are more hydrophilic than polystyrene microspheres, and therefore they are less likely to cause non-specific binding.

Many of our PMMA microspheres are offered with carboxyl functionalized surface groups (primary amine groups are also available on a custom basis). These surface modified microspheres are suitable for the covalent attachment of proteins, peptides, and nucleic acids. PMMA microspheres loaded with color or fluorescent dye are available on a custom basis.

### Characteristics:

Size Range: 25nm - 375 $\mu$ m  
Density: 1.19 g/ml

#### Packaging Information:

Products with a diameter  $\leq$  20 $\mu$ m are supplied as 1% solid suspensions (10mg/ml).  
Products with a diameter  $>$  20 $\mu$ m are supplied as pure solid particles.

#### Suspension Solution:

De-ionized water containing a small amount of surfactant and 2mM of sodium azide as an anti-microbial agent.

### Product Stability, Storage and Specifications:

This product should be stored at 2-8°C. Do not freeze!

### Product Use:

Sonicate/Vortex the microspheres before each use.

These products are for research and manufacturing use only and are not intended for use in humans, therapeutic or diagnostic purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery.