



PMMA Particles-SO3H PRODUCT DATA SHEET

PMMA Particles-SO3H

Description

Poly(methyl methacrylate) (PMMA) microsphere is a kind of spherical polymer particles, which is polymerized from methyl methacrylate (MMA) monomer by initiator. PMMA particles have monodisperse diameter, excellent biocompatibility, superior transparency and diverse chemical group, and widely used in templates, optoelectronic devices, detection and separation.

The preparation systems of PMMA microspheres including emulsion polymerization, suspension polymerization, dispersion polymerization, seed swelling polymerization, and the functionalization strategies. Abvigen can offer PMMA microspheres involving group modification, magnetic nanoparticle doping, fluorescent particles.

For custom sizes, formulations or bulk quantities please contact our customer service department.

website: www.abvigen.com Phone: +1 929-202-3014 Email: info@abvigenus.com

Characteristics

Concentration: 10 mg/ml

Size: 10 ml; 20 ml

Surface: SO3H

Shape: Spherical

Density: 1.15 g/ccm

Composition: Poly(methyl methacrylate) particles

Buffer: DI Water

Form: Suspension

Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

Highlights

1378 US-206 Ste 6-126, Skillman, NJ USA

info@abvigenus.com

Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Reserved

Email:

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Highly spherical, optically clear, and can be dissolved with solvents.

Hydrophilic, amorphous, transparent, and colorless thermoplastic

Excellent UV resistance

High compressibility

Optical dispersion

High impact and heat resistance

Good tensile and flexural strength

High compressive strength

Good dielectric strength

Applications

Fillers in cosmetic procedures

Energy storage

Tissue engineering

Thin-film transistors

Bioimaging

Lightweight alternative

Porous ceramics

Theranostics

Pharmaceutical industries

Drug delivery systems

Bone cements

Biomedical devices

Immunoassay

Plastic material

Prosthetic dental applications

Sensor

Self assembled microfluidic devices

For 25 mg/ml of 2.5% w/v particles

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Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
25 nm	25	1.19E+14	2.97E+15	10 um	25	1.85E+06	4.64E+07
50 nm	25	1.48E+13	3.71E+14	20 um	25	2.32E+05	5.79E+06
100 nm	25	1.85E+12	4.64E+13	30 um	25	6.87E+04	1.72E+06
200 nm	25	2.32E+11	5.79E+12	40 um	25	2.90E+04	7.24E+05
300 nm	25	6.87E+10	1.72E+12	50 um	25	1.48E+04	3.71E+05
400 nm	25	2.90E+10	7.24E+11	60 um	25	8.58E+03	2.15E+05
500 nm	25	1.48E+10	3.71E+11	70 um	25	5.41E+03	1.35E+05
600 nm	25	8.58E+09	2.15E+11	80 um	25	3.62E+03	9.05E+04
700 nm	25	5.41E+09	1.35E+11	90 um	25	2.54E+03	6.36E+04
800 nm	25	3.62E+09	9.05E+10	100 um	25	1.85E+03	4.64E+04
900 nm	25	2.54E+09	6.36E+10	200 um	25	2.32E+02	5.79E+03
1 um	25	1.85E+09	4.64E+10	300 um	25	6.87E+01	1.72E+03
2 um	25	2.32E+08	5.79E+09	400 um	25	2.90E+01	7.24E+02
3 um	25	6.87E+07	1.72E+09	500 um	25	1.48E+01	3.71E+02
4 um	25	2.90E+07	7.24E+08	600 um	25	8.58E+00	2.15E+02
5 um	25	1.48E+07	3.71E+08	700 um	25	5.41E+00	1.35E+02
6 um	25	8.58E+06	2.15E+08	800 um	25	3.62E+00	9.05E+01
7 um	25	5.41E+06	1.35E+08	900 um	25	2.54E+00	6.36E+01
8 um	25	3.62E+06	9.05E+07	1 mm	25	1.85E+00	4.64E+01
9 um	25	2.54E+06	6.36E+07	3 mm	25	6.87E-02	1.72E+00

Ordering Information

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