

# Polystyrene Spherical Beads–PB

## Technical Data Sheet

11/2024

### Polystyrene Spherical Beads–PB

Polystyrene Spherical Beads–PB are high–performance sandblasting microspheres made of polystyrene. Suitable for extremely delicate, surface–sensitive workpieces with extremely high requirements for surface finish, such as in the medical and aerospace industries.

- High transparency, light transmittance over 90%.
- No residue, simplifying the subsequent cleaning process.
- Precise spherical size to avoid clogging the workpiece slot.
- Good rigidity and chemical resistance, long service life.
- Non–toxic materials, in line with medical safety requirements.
- Uniform high particle size ensures a consistent sandblasting effect.
- Certified with ISO9001 and ISO14001 standards.

### DESIGNATION AND AVAILABLE SIZES

Part Designation	Screen size	Inches	Millimeters
PB-1	18/30	.039/.024	0.99/0.61
PB-2	30/45	.024/.014	0.61/0.36
PB-2.5	35/45	.020/.014	0.50/0.36

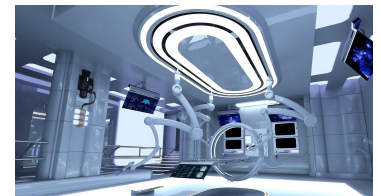
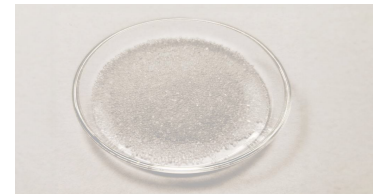
Part Designation	Screen size	Inches	Millimeters
PB-3	45/100	.014/.006	0.36/0.15
PB-4	60/100	.010/.006	0.25/0.15

### PHYSICAL PROPERTIES

	Numerical Value
Texture of Material	Polystyrene+antistatic
Grain Shape	Sphere
Particle Color	Transparent white
True Specific Gravity	1.461–1.53
Bulk Density	0.93–0.96g/cm <sup>3</sup>
Stretching Force	750kg/cm <sup>2</sup>
Bending Stress	1000kg/cm <sup>2</sup>
Water Absorption Rate 23°C	1.8
Molding Shrinkage Rate	1.2–1.5
Surface Resistivity	<109
HDT	205°C
Melting Point	220°C
Smell	Odorless
Iron Content	0.05
Spherical particles	Φ0.2–1.2

### MAIN APPLICATIONS

- Deburrs sensitive electronics and precision rubber parts;
- Grind for medical device and equipment manufacturing;
- Clean molds to optimize surface finish;
- Precision blast aerospace parts to avoid cracks;
- Standard tests in optics and scientific research.



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### PACKAGING

- 25kg PE bag + box + pallet
- Larger size bags available upon request