

CHAOS TRADE
Tomasz Pietrzyński
Kolejowa 27
62-010 Pobiedziska
Poland
EU VAT: PL7772785677
tel. +48 665 501 355

Technical data sheet

Item

Product Description: Reflective glass beads (reflective powder)

Model: M-BPO193

Application Scopes

Traffic signs, safety clothing, crafts, etc.

Typical chemical properties

Composition: Glass based on TiO₂, BaO and SiO₂.

Insoluble in organic solvents, water

Resistances: water, solvents, weak acids and alkalines (strong acids and alkalines may make glass beads opaque which will reduce reflective properties).

Typical physical properties

Appearance: white, smooth powder

Specific gravity: 4.2g/cm³

Particle size distribution: 37-45um

Roundness: >95%

Opacity: <3%

Typical optical properties

Refractive index: 1.93ND

Luminance:

Angle of incidence	Observation angle	Luminance (mcd/m ² /lx)
0.2	-4	260-270
0.33	-4	200-220
1	-4	48-52

Lifespan: > 15years under well packing condition.

Safety:Toxic: No

Flammable: No

Due to possibility of irritation please avoid inhaling dust or contact with eyes.

Other data:

- Using condition (recommended): Apply reflective powder on wet lacquer, resin or other bonding agent surface. Bonding agent should be transparent (coloured one may affect refraction). After curing of bonding agent please remove excess of reflective powder. Layer of bonding agent should be as thin as possible – reflective powder should stick to it but not be covered by bonding agent. Mixing reflective powder with bonding agent directly before painting is also possible but may lead (and most probably will lead) to weaker refraction. Using protective lacquer on surface already covered by reflective powder may also reduce refraction.

- Storage Condition: In cool, dry and ventilated place, with temperature -30~50C

- Packing: 100g, 500g, 1kg, 5kg – PE container; 25kgs /iron pail lined with plastic bags.

Document has been made basing on supplier certificate.