

Laser Engraving BX Laser 8208

Principle of Laser Marking

A pulsed laser beam of high energy is generated by laser generators. Laser Engraving additives make the light convert into the heat energy when the beam acting on the materials to be marked. At the same time, their surface is melted, discolored or even gasified, thereby forming a mark.

Features of Laser Marking

- Non-contact processing;
- High precision, fast, high legibility, reliability;
- Forming High resolution mark;
- Environment friendly;
- Easy to use, strong security features;
- Strong traceability of products;
- High-speed automatic processing can be achieved;
- The overall production cost of individual parts is far less than that of printing traditional inks.

BX Laser 8208 Function

BX Laser 8208 is a necessary additive for plastics, elastomers, and rubbers, which cannot be marked or weak marked by lasers. The marks produced by BX Laser 8208D are always clear, good and durable, and these marks cannot be gradually faded away by physical or chemical actions. Used to replace MERCK Iriotec 8208 using our own laser engraving pigment powder.

Application

BX Laser 8208D is suitable to apply to mark the dark color on the light-colored plastics, elastomers, and rubbers.

Features

- The color of plastics, elastomers, and rubbers does not alter obviously after adding BX Laser 8208
- A high precision Engraving can be achieved, such as a photo-level.

BX Laser 8208 Application

PP、PE、ABS、PA6、PA66、PS、PBT、PET、POM、SEBS、TPU、TPE, and so on.

Laser Engraving Systems

Systems of the wavelength at 355-1064nm can be used. YAG and fiber laser Engraving systems (355-1064nm) are strongly recommended.

Technical Data of BX Laser 8208

Parameters	Typical values	Test methods
Form	Granule	By Visual
Color	Light gray	By Visual
Density (g/cm ³)	1.70±0.01	ISO 1183-1:2004
Suitable laser wavelength (nm)	355-1064	Internal test methods
Package Size (kg)	25.0	---

Processing

- BX Laser 8208 is recommended to compound with the target materials using extruders. Processing parameters of the target materials remains unchanged during extrusion granulation. Then blow molding, injection molding, extrusion or other technology can be used to produce plastic parts.
- The plastic parts can be direct produced by injection molding, after a

simple dry blend of BX Laser 8208 and the target materials.

- During extrusion granulation and direct injection molding, BX Laser 8208 can be used together with color master batch, dyes, and pigments of white, yellow (light), blue(light), red(light), gray, etc.

Dosage

- In general, 1.0-2.0 wt% is always recommended.

Toxicity

BX Laser 8208 is no danger to human, and it's environment friendly.

Package and Storage

- BX Laser 8208 is packaged by a plastic box or a carton lined with a PE bag;
- BX Laser 8208 is non-dangerous goods;
- Please store in dry and ventilated conditions;
- Waterproof and moisture-proof;
- Avoid sun exposure;
- Please seal the unused portion of BX Laser 8208;
- Please use up within 24 months.