













Laser Marking Additives Specification

Model	Picture	Form/Shap	Color	MFI	Density(g/cm³)	Processing Temperature	Compatibility	Laser Type	Dosage	Laser Marking Results
DM-GW0032		Granule Pellet Φ2.5-2.8mm	Ashen White	10g-30g/10min	1.3-2.1	200-260℃	Universal (PP PE ABS TPU POM PBT Nylon TPE etc.)	Fiber Laser	1-3%	Laser marking black on colored polymer
DM-GW0042		Granule Pellet Φ2.8mm*6mm Φ2.5-2.8mm	Gray				Universal (PP PE ABS TPU POM PBT Nylon TPE etc.)	Fiber Laser	1-3%	
DM-GW0052		Granule Pellet Φ2.8mm*6mm Φ2.5-2.8mm	Dark Gray				Universal (PP PE ABS TPU POM PBT Nylon TPE etc.)	Fiber Laser	1-3%	
DM-GW0062		Granule Pellet Φ2.5-2.8mm	Ashen White				Universal (PP PE ABS TPU POM PBT Nylon TPE etc.)	UV Laser	1-2%	
DM-GW0072		Granule Pellet Φ2.5-2.8mm	Ashen White				PC	Fiber Laser	1-3%	
DM-GB0031		Granule Pellet Φ2.8-3.0mm	Black	10g-30g/10min	1.3-1.8	200-260℃	Universal(PE PP PA66 TPU POM etc.)	Fiber Laser	1-1.5%	Laser marking white on black polymer(Do not add any more black masterbatch or carbon black pigment)
DM-GB0041							Universal(POM PE PP PA66 TPU etc.)			
DM-GB0051							ABS			
DM-GB0061							PC			
DM-GB0071							PA66			
DM-GB0081							PC			
DM-GB0091							PP			
DM-GB00101							PA			
DM-GB00111							PBT		3%	
DM-GB0030		Granule Pellet Φ3.0-3.5mm	Dark Green	10g-30g/10min	1.3-1.8	200-260℃	PC	Fiber Laser	1-1.5%	Laser marking black on transparent polymer
DM-GB0040							PP		1-1.5%	

DM-GG0033		Granule Pellet Φ3.0-3.5mm					Universal			
DM-GW0043		Granule Pellet Φ3.5-4.5mm	White	10g-30g/10min	1.3-1.8	200-260℃	Universal	UV Laser	1-1.5%	Laser marking white on colored polymer
DM-GW0053							PA			
PW0036		Powder	Gray	10g-30g/10min	1.3-2.1	200-260℃	Universal (PP PE PBT etc.)	Fiber Laser	0.2-0.5%	Laser marking black on colored polymer
PW0046							ABS		0.2-0.5%	
PW0056HE							PBT		0.1-0.3%	
PB0037		Powder	Black	10g-30g/10min	1.3-2.1	200-260℃	Universal	Fiber Laser	0.2-0.5%	Laser marking white on black polymer
PG0038		Powder	Gray	10g-30g/10min	1.3-2.1	200-260℃	Universal	UV Laser	0.2-0.5%	Laser marking white on colored polymer
PG0048									0.30%	

Package and Storage:

- Carton Size: 50*38*16cm
- Weight: 25Kgs per carton
- Laser additive is packaged in a plastic box or a carton lined with a PE bag.
- Laser additives are non-hazardous.
- Store in dry and ventilated conditions, and keep it waterproof and moisture-proof.
- Avoid exposure to direct sunlight.
- Seal the unused portion of the laser additive and use it within 24 months.



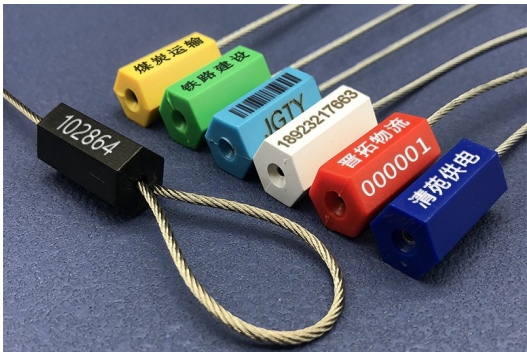
Application Of Laser Marking Additives:

The Laser Marking Additives are utilized for marking natural color plastic, white plastic, colored plastic, and black plastic laser printing labels. These additives have been successfully employed in a wide range of industries, including livestock ear tags, light switch covers, cosmetic packaging materials, 3D printing materials, ABS keyboards, HDPE, PET, and PVC rigid containers, automotive interior buttons and door knobs, dashboards, commercial machinery, nylon and PBT electrical connectors for automotive and non-automotive applications, hood components, anti-counterfeiting labels, container latches, stationery, and appliance shells, among others.



Usage of Laser Marking Additives:

- 1. Select the appropriate laser marking additive for your material.
 - 2. Dry the raw materials and add the laser marking additives.
 - 3. Thoroughly mix the raw materials and laser marking additives, then proceed with injection molding or granulation.
 - 4. Once the finished product is injection molded, it can be directly engraved and marked using a laser machine.
 - 5. Adjust the laser parameters based on the material type and desired marking effect.
 - 6. Mark the material using the laser, ensuring it adheres to the manufacturer's instructions for the laser machine.
- Note: It is crucial to use safe laser marking additives free from harmful chemicals.
- Always carefully read and follow the manufacturer's instructions when using laser marking additives.



USAGE NOTICE OF LASER MARKING ADDITIVE

- Laser marking additives are mainly used in injection molding or pelletizing production processes, just mixed evenly with the substrate.
- Laser marking black or gold on black polymer: We recommend that the raw materials be natural or transparent, and no carbon black or black masterbatch should be added.
- It is also important to ensure that the laser marking system used is compatible with the additive and to test the mark on a small area before applying it to the entire material.
- Most laser marking additives do not require baking. It is recommended to dry the raw materials first and then mix our laser marking additives evenly.
- It is important to follow the instructions for use provided by the additive manufacturer and follow proper disposal procedures.