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TECHNICAL DATA SHEET

LZQ Series daylight fluorescent pigments

General description:

LZQ Pigments are developed for plastic applications, where good heat stability and lower mold plateouts are needed, with excellent heat stability upto 280°C, as well as no formaldehyde outgassing. They also exhibit good tinctorial strength and bright shades.

Features and Benefits:

- Formaldehyde free,
- Compatible with most polymers in general use.
- Recommended processing temperature 180- 280°C .
- Excellent brightness and colour strength.
- Heavy metals meet EN 71-3 requirements for toys;

RoHS and phthalates content compliant

Applications:

- Melt-in with extrusion, injection of various polymers (Test is suggested before used in an individual polymer)
- Masterbatch
- Selected applications in blow molding

Available colors: (Special colors are available upon request.)

LZQ-11	Pink	LZQ-15	Orange
LZQ-12	Cerise	LZQ-16	Orange yellow
LZQ-13	Red	LZQ-17	Yellow
LZQ-14	Red orange	LZQ-21	Magenta

Physical & Chemical Properties:

LZQ pigment is a dyed / pigmented polyester-amide thermoplastic copolymer.

Specific Gravity	1.2	Processing Temperature	180°C~280°C
Softening(melting) Point	>120°C	Average Particle Size	≤100µm

Lightfastness:

Fluorescent pigments are stable to indoor light or outdoor conditions without direct sunlight. By exposure to outdoor sunlight the color will change, whereby the degree of fading is depending on following factors:

- Color of the pigment
- Type of polymer carrier
- Intensity of the incident sunlight.
- Pigment loading and thickness of the end product. The higher the pigment concentration is, the better the lightfastness is.

The lightfastness may be improved by including UV- absorber(s) in the formulation and/or by making use of clear overcoats containing UV-absorber(s).

Heatstability:

When used in general plastic applications LZQ pigments can perform well at temperature upto 280°C. It may stand higher temperature but test is needed. Heatstability also depends on dwell time.

Additives:

Certain metal ions and nucleated polymers are know to cause color changes and loss of brightness with fluorescent colorants. Studies have shown that plastics processing additives containing “free” zinc, magnesium, calcium and iron will cause deleterious color effects when used in conjunction with LZQ pigments. If a metal containing additive must be used, it should be thoroughly tested to make sure the color stability of LZQ pigments.

Storage:

LZQ fluorescent pigments are delivered in cartons with PE lining, net weight 25 kg. It should be kept in cool place and away from heat. All opened bags should be carefully resealed immediately after use.

Toxicity:

LZQ fluorescent pigments are essentially non-toxic and non-hazardous with zero formaldehyde emission and extremely low heavy-metal content. Safety data sheet (SDS) is available upon request.