



Shanghai King Chemical Co.,Ltd

Tel: +86-21-67817854 Fax: +86-21-67817855

Address: ROOM CDEF , 9th Floor, Building D, Weijing Center Tower
NO.2337 GuDai Road, Minhang District, Shanghai, China

TECHNICAL DATA SHEET

HX Series daylight fluorescent pigments

Introduction:

HX is a most widely used fluorescent pigment designed with strong color strength, excellent fluorescence and easily dispersed for injection molded plastics in which the processing temperature is below 195°C.

Features and Benefits:

- Thermoplastic general purpose grades offering excellent brightness and color strength.
- Heavy metals comply with EN 71-3 requirements for toys; RoHS compliant.

Applications:

- Injection molded plastics (PP/PE/PS/PVC) below 195°C
- Clay coloring

Available Colors:

HX-10	Lemon yellow	HX-16	Orange yellow
HX-11	Pink	HX-17	Yellow
HX-12	Cerise	HX-18	Green
HX-13	Red	HX-19	Blue
HX-14	Red orange	HX-20	Violet
HX-15	Orange	HX-21	Magenta

Physical & Chemical Properties:

HX pigment is a dyed/pigmented melamine toluene-sulfonamide formaldehyde thermoplastic copolymer.

Specific Gravity 1.36

Average Particle Size $\leq 10\mu\text{m}$

Softening Point $> 105^\circ\text{C}$

Processing Temperature $< 200^\circ\text{C}$

Decomposition Temperature $> 200^\circ\text{C}$

Oil Absorption 56g oil/100g pigments

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:

If used in plastic injection mouldings HX pigments can hold processing temperature below 195°C.

Storage:

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

Toxicity:

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