Norcote Technical Bulletin

8833 Phosphorescent Pigment

Introduction:

The 8833 phosphorescent (glow in the dark) pigment has an average particle size of 2.5 microns with 100% of all particles being under 8 microns. The fine particle size makes it suitable to be used in printing inks.

It is the responsibility of the end user to pretest all substrates with Norcote® products prior to use in production.

Material Description:

Phosphorescent Pigment

Physical Properties:

Appearance: Yellowish Green
Excitation Wave Length: 200-450nm
Emission Wave Length: 520nm
Afterglow Brightness: 300 mcd/m^2
(Brightness after 10 minutes excitation with Xe light of 1000 lux for 5 minutes)
Afterglow Extinction: >2,000 min.
(Time to decrease the afterglow to 0.32 mcd/m^2 when excited with the above condition)
Excitation Time: ~ 15 min.
Light Fastness: > 1,000 hours
(The time to drop the initial afterglow brightness by 20% after irradiation with 300W high pressure mercury lamp)
Chemical Stability: Excellent
Specific Gravity: 3.6
(In powder form)

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