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Information sheets

PLASTIC COATING & CALENDERING INDUSTRY

Radglo® fluorescent pigments for the plastic coating and calendering industry

Because of their outstanding brilliance and luminosity, properties that are inherent to fluorescent pigments, RADGLO® colours are particularly useful where an intense and long distance visibility is needed.

These characteristics make them especially applicable for publicity and advertising as well as safety and warning signals.

One of the most popular safety applications are the brilliant yellow and orange jackets, worn by workmen on motorways, policemen, street guides at schools etc... These are usually made from PVC coated fabric, which is formulated with a high performance type fluorescent pigments of the RADGLO® PS or PC series. Other systems use coatings in polyurethane, acrylic or rubber resins. The PVC formulation gives the optimum lightfastness due to a combined stabilisation of the PVC and the PS pigments. For standardisation purposes, specifications have been worked out on the endproduct for spectrophotometric data and after ageing tests.



Recommended pigment types per application

Coatings	PVC	PS/PC/GM
	PU	PS/PC/GM
	Waterbased acrylic formulations	JST/GWT^⓪
	Solvent based acrylic formulations	PS/PC/GM
	Latex	PS/PC/GM
Casting	PVC organosol	PS/PC/GM
Calendering	PVC	PS/PC/GM
Dipping	Latex	JST/PS/PC/GM/ GWT^⓪
	PVC	PS/PC/GM

Properties

RADGLO® fluorescent pigments PS/PC pigments offer the fabric coating industry a colour range of standardised and specific hues as well as physical and chemical characteristics, complying with international standards.

Specifications with tristimulus values, trichromatic co-ordinates and luminance factor or purity are stipulated with the aim of identifying particular persons or objects. Examples are EN471 and EC27/3 describing high visibility attracting colours for safety clothing (EN471), warning triangle devices and slow moving vehicle emblems (ECE27/3) with a minimum life time corresponding to spectrophotometric analysis after exposure under accelerated weathering conditions. The lightfastness of the coated fabric will be a function of the concentration of pigment, type of fluorescent pigment, stabilisation of the formulation, film thickness and binder system.

Assistance in respect of colour specifying before and after ageing in conformity with EN471 respectively ECE27/3 is a basic part of Radiant Color's service. An optimum performance is achieved when applying a clear UV inhibited topcoat. Another application with a broad use in the area of display materials as well as advertising will be produced in the form of a pressure sensitive adhesive foil on release paper.



Radglo® Specialities

* *Polymeric colorants: Gem-Tone*

® = registered trademark

Disclaimer: This technical information is just an advice. No warranty of fitness for a particular purpose is made.



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