

RADGLO[®] PR SERIES

FLUORESCENT CONTRAST PIGMENTS FOR LEAK DETECTION

25/06/2015

Technical Information

Applications:

Tracer pigment

Leak detection

Sand coloring

Product description

RADGLO[®] PR fluorescent pigments are non standard pigments what means that color, colorstrength, some physical and chemical properties are not standardized.

With RADGLO[®] PR series, Radiant Color NV offers a unique, easy to use and accurate leak detection system for all air filtration installations.

This series is especially developed for applications where no typical specifications are required.

Chemical composition

RADGLO[®] PR fluorescent pigments are composed of a solid solution of dyestuffs in a polymer. Depending on the blend, polymers might be used such as melamine formaldehyde or benzoguanamine formaldehyde or polyester or polyesteramide resins or mixture(s) of those.

RADGLO[®] fluorescent pigments as such are not classified in the Color Index (CI), but certain color components are.



Available colors

- PR-10: Chartreuse
- PR-11: Green
- PR-13: Orange
- PR-14: Orange Red
- PR-15: Red
- PR-17: Pink
- PR-18: Magenta
- PR-19: Blue

Physical properties

- Spec. gravity: 1.1-1.2 g/ml
- Hegman grind: 5.0-6.5
- Melting point might vary between 80°C and 300°C where the pigment mixtures might become plastified above 60 °C or remain thermoset till higher temperatures.

Regulatory and Ecotox information

All components of RADGLO[®] PR series are registered in EINECS & TSCA.

RADGLO[®] PR series is basically free from heavy metals. For detailed information, please consult the individual SDS.

Applications, Storage & Processing conditions

These pigments as such can't be recommended for a special application as the formulation is changing continuously. If a specified application is requested, we must recommend to use another pigment of our better suitable product series. By its high contrast color gamut and its UV-responsive nature, RADGLO® PR pigments are easily detectable by a handheld UV lamp to determine spot leaks at the clean air side of the filtration installation.

Processing conditions

RADGLO® PR series permits an easy to use leak detection check, without any complex operations on the polluted air side of the filter installation.

After a complete cleaning cycle of the air filtration system, RADGLO® PR pigment is added to the air stream close to the inlet of the filter chamber of the system at approximately 10 -15 g/m² of filtration surface.

After a ventilation time of 5 minutes, the installation can be examined at the clean air side with UV light to locate and mark spot leaks in the filter housing, sleeves and filter bags, where the RADGLO® PR pigment deposits.

RADGLO® PR pigments are available in 8 different colors, so a next test cycles can be carried out with different colors to check on repairs.

Properties of RADGLO® PR non standard pigments are limited. If specific properties are required, standardised series should be chosen.

Lightfastness & Heatstability

Lightfastness

Fluorescent pigments are more fugitive than conventional pigments. They are stable to indoor light or outdoor conditions other than 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
- Pigment loading and thickness of the endproduct. The higher the pigment loading and thickness, the better the lightfastness.
- Type of binder polymer
- Intensity and angle of the incident sunlight.

Heatstability

RADGLO® PR fluorescent pigments are not developed for applications where heatstability is required.

If heatstability is required, we have to recommend our standardised PS or PC series.

Available colors & package of the PR series:

COLOR	PR	Package:	Bags containing:	
Chartreuse	PR-10	10 boxes x 20kg	2 x 10kg	= Minimal order (200kg)
Green	PR-11			
Orange	PR-13			
Orange Red	PR-14			
Red	PR-15			
Pink	PR-17			
Magenta	PR-18			
Blue	PR-19			

Similar codes in the different series offer a comparable color but are not 100% identical. Color may depend on the specific formulations of the customer.

® = registered trademark

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