Radglo® RPZ-1-01

General information

General description:
- Phosphorescent pigments for coloring plastics and coatings.
- Zinc Sulfide compound.

Applications:
- Coloring plastics as acrylics, nylons, polystyrene, polyolefins & vinyl and coatings.

Product features
- Responds quickly to excitation by daylight, incandescent, fluorescent or ultraviolet light and produces a bright green emission color.
- Afterglow is depending on pigment concentration, surface area and the amount of energy absorbed.
- Recommended concentration:
  - for plastics: 10% by weight.
  - for thick coatings: ± 30% by weight.
- It can be mixed with transparent pigments or colorants (f.ex. Radglo fluorescent pigments ). Recommended loading is 1 to 10 ratio of fluorescent to phosphorescent pigments.
- Precautions during processing:
  - Strong acids can cause dissolution of the phosphorescent pigments.
  - The presence of humidity and sunlight can exhibit darkening.
  - The intensity of the phosphorescence will be reduced by adding colorless extenders or colored pigments.

Technical information

<table>
<thead>
<tr>
<th>Physical properties</th>
<th></th>
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<tbody>
<tr>
<td>Delivery form</td>
<td>Powder</td>
</tr>
<tr>
<td>Daylight body color</td>
<td>Slightly yellow</td>
</tr>
<tr>
<td>Afterglow color</td>
<td>Green</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>4.1 g/cm³</td>
</tr>
<tr>
<td>Particle size D₅₀</td>
<td>20 µm</td>
</tr>
<tr>
<td>Melting point</td>
<td>1830°C</td>
</tr>
<tr>
<td>Mohs hardness</td>
<td>3.0</td>
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</table>

<table>
<thead>
<tr>
<th>Afterglowing (1)</th>
<th>10 min (mcd/m²)</th>
<th>60 min (mcd/m²)</th>
<th>Time to reach 0.32 mcd/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≥ 26</td>
<td>≥ 2.6</td>
<td>≥ 280 min</td>
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</table>

(1) Xenon Excitation – 5 min @ 1000 Lux, 22°C ±3°C

Standard color:
- Product name: RPZ-1-01
- Description: Radphos Green

Packaging:
- 1box = 20kg (1x20kg)
- MOQ = 20kg

Storage & shelf life:
120 months after production date when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:
Safety Data Sheet available on request.

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