

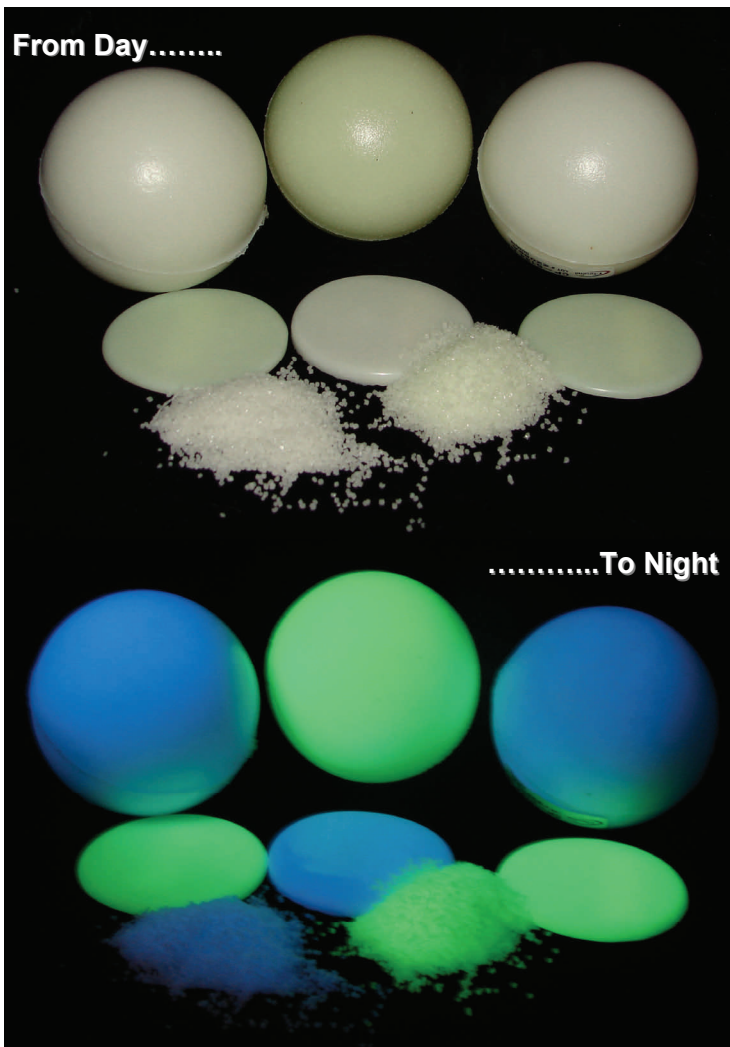


Excellence in Color

Photoluminescent

Glow-In-The-Dark Photoluminescent Plastics for Rotational Molding

- 32 hours of glow- No batteries, light bulbs or wiring is needed!
- Light Stable Formulation custom tailored for glow longevity and brilliance.
- Designed for specific life safety applications
- Enhance and differentiate your product
- Suitable for outdoor or indoor applications



Overview

Chroma's Development Center has introduced a new light stable Photoluminescent material. Chroma Glow is offered in a mini-pellet form for optimal processing. Products molded using Chroma Glow have been tested by an outside laboratory resulting in measurements of 32 hours of glow time. Tests continue on a number of materials to expand Chroma' products within the rotational molding industry.

Performance

Over 32 hours of glow has been measured in testing performed by independent laboratories.

Use Requirements

Chroma Glow mini-pellet shot can be introduced directly into the mold- No Mixing!

Product Trials

Products in the Chroma Glow line are currently available in Blue or Green Glow and can be custom formulated to comply with select Photoluminescent glow standards.

The Challenge

Challenge Chroma to demonstrate how our commitment to **EXCELLENCE IN COLOR** can make a meaningful contribution to the success of your business.

Chroma Rotational Molding Division, Inc.

A Subsidiary of Chroma Corporation

1260 North Belden Street, McHenry, IL 60050

Main: 815-385-8100 ~ Customer Support:: 815-759-2170 ~ Fax: 815-363-2648

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Technical Specifications

Photoluminescent

Testing was conducted by an independent laboratory to measure the glow longevity and brilliance of rotationally molded parts made using Chroma-Glow mini-pellets. These tests were performed using the specifications of the DIN 67 510 parts 1-4 glow standard. In these tests products are kept in complete darkness for 24 hours, then exposed to 1000 lux of light for 5 minutes. The glow is measured until it reaches the point where it is believed that a “dark adapted eye” can no longer detect glow; which per DIN 75 510 is 0.32 millicandellas per meter squared (mcd/m²). brilliance of mini-pellets.

| Time (Minutes) | Afterglow luminance (mcd/m ²) | | | |
|--|---|--------------------------|-------------------------|-------------------------|
| | Rotational molded LLDPE samples | | | |
| | CP-9118 GL Green Glow | CP-9124 GL Green Glow | CP-5133 GL Blue Glow | CP-5134 GL Blue Glow |
| 1 | 1782.0 | 1365 | 560.4 | 453.9 |
| 10 | 217.0 | 159.6 | 107.9 | 81.9 |
| 20 | 103.8 | 75.9 | 57.3 | 43.3 |
| 30 | 66.8 | 48.0 | 38.5 | 28.0 |
| 60 | 31.0 | 21.6 | 19.3 | 13.1 |
| Afterglow luminance (mcd/m ²) | Time to decrease to 0.3mcd/m ² (min) | | | |
| | Rotational molded LLDPE samples | | | |
| | CP-9118 GL | CP-9124 GL | CP-5133 GL | CP-5134 GL |
| 0.32 | 1942 minutes | 1370 minutes | 1300 minutes | 1000 minutes |
| | 32 hours 21 minutes | 22 hours 49 minutes | 21 hours 39 minutes | 16 hours 39 minutes |

NOTE: The addition of pigments may reduce physical properties. Chroma continues to evaluate the low temperature impact strength of these materials. As with any materials Chroma recommends they be tested in the final part to verify the approval of the end use application.

PLEASE CONTACT CHROMA’S CUSTOMER SUPPORT DEPARTMENT FOR ADDITIONAL INFORMATION.



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