



Lunabrite Resin Specification Sheet

Product Description	High performance, illuminating resin and accent luminescent lighting, powered exclusively by exposure to sun or ambient light. Does not require batteries, bulbs, wires or electricity. Recharges naturally with exposure to sun or ambient light. Most illuminating materials are available in a concentrate (master batch) or as a precolor resin.
Product Function	Provides both a design accent element and enhanced visibility and safety when used in darkened conditions. Lunabrite provides a vibrant glow that works in combination with retro reflective materials for an even higher level of safety. Performance will vary depending upon actual use, exposure conditions and maintenance. Users should test Lunabrite to satisfy conformance of their own requirements.
Light Activation	Lunabrite illuminating resins activate within 5 minutes exposure to ambient or sunlight light sources. Brightness is directly proportional to light intensity and exposure. Maximum brightness is achieved with exposure to 30 minutes of direct light.
Light Persistence	Brightest light is evident in darkened conditions during the first 3 to 4 hours after exposure. Brightness will diminish slowly until recharged in ambient or sunlight. Total perceptible glow can be visible up to a maximum of 12 hours. Light persistence will differ by color specified and ranges from 2 hours up to 12.
Visible Distance	Visible from approximately 30 feet up to 100 feet depending upon conditions and amount of Lunabrite used and is surface area dependent.
Available Polymers	EVA, HDPE (High Density Polyethylene), LDPE (Low Density Polyethylene), TPE (Thermoplastic Elastomers), TPO (Thermoplastic Polyolefins), Polycarbonate, Polypropylene, Flexible PVC, Acrylic, Clear ABS, LLDPE (Linear Low Density Polyethylene) SAN (Styrene Acrylic Nitrol), PETG, K-Resin.
Colors Available	Lunabrite is available in a full range of light emission colors. Our color experts will also create custom blends to your specific designs. (Please see Color List on our Product Design page).
Dark Colors	Dark resins typically diminish emission intensity. Therefore we recommend "tints" be considered. Lunabrite is a unique product and pigments do vary from lot to lot in color strength. Our Technical Team will work with your design experts to adjust formula as closely as possible.
Compliance	Our materials are fully compliant with REACH (1907/2006/EC), ROHS (2002/95/EEC) CONEG, Prop 65, SARA Section 313, CPSIA and ASTM F963-07.
Temperature Performance	Actual material performance is contingent upon polymer specified.
Laundering Instructions	Machine washable and dryer tolerant per appliance manufacturers instructions.
Toxicity	Oral Acute toxicity testing from CPTC Labs determined Lunabrite to be fully, non-toxic, safe around children and pets, safe if accidentally ingested.
Manufacturing/Processing Options	Injection Molding, Extrusion, Rotational Molding, Vacuum Forming and custom manufacturing formulations available.