

Lunabrite Illuminating Resins Processing Guidelines



For Brightest Results Follow these guidelines...

Thoroughly clean barrel and screw before processing. Any carbon build-up inside the equipment will become dislodged when running Lunabrite compounds.

Processing temperature should be on the high side of the manufacturer's recommendations.

Minimize shear – reduce RPM's, injection speed, back pressure, and increase temperatures in the feed section near the hopper.

Remove any screen packs- Lunabrite glow crystals have a nominal size of 20-30 microns. Some are larger. The larger the glow crystal the brighter and longer the glow will be. Removing the screen packs will eliminate the possibility of screening these larger particles out of the product.

Do not use a UV stabilized resin. The glow crystals and UV stabilizer fight over the same light source (long wavelength UV). Adding a UV stabilizer or UV stabilized resin will diminish the ability of the glow crystals to accept a charge. In addition, the glow crystals absorb the UV light and in themselves act as a UV stabilizer for the polymer.

Screw configuration / design- A straight feeding screw is the most desired screw configuration. Do not use screws with dispersion plates or mixing chambers, as this will only "gray off" the pigment, diminishing the glow and making the parts appear dirty.

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