



PRODUCT DEVELOPMENT WORKFLOW

FROM FORMULATION TO COMPOUNDING, MOLDING AND QUALITY CONTROL



1

FORMULATE THE DYE SYSTEM



Build a custom dye formulation tailored to your application.



Near Infrared Dye



UV Absorber



Visible Dye



Dye Blend / Formulation



Custom color, UV control, and NIR functionality in one tailored formulation.

2

BLEND WITH THE BASE POLYMER



Combine with the right base polymer for optimal processability.



Dye Blend



Polycarbonate Pellet



Ready-to-Compound Feed



Balanced material feed prepares the formulation for consistent melt compounding.

3

COMPOUND, MOLD AND VERIFY QUALITY



From compounding to molded parts, we ensure quality at every step.

SINGLE SCREW EXTRUSION



Efficient melting and mixing for uniform compounds.



INJECTION MOLDING



Produce sample plaques or parts for evaluation.



ANALYZE PERFORMANCE



Evaluate color, NIR, UV and process performance.



QC CERTIFICATE



Documented release criteria ensures consistency.



**TRUSTED QUALITY.
READY TO SCALE.**
Validated compounds you can rely on.



A cleaner, repeatable workflow from functional dye formulation through production validation.

FROM CONCEPT TO CONFIDENCE

We turn ideas into high-performance, color-consistent compounds you can count on.



AUTOMOTIVE



MEDICAL



SAFETY & PROTECTION



OPTICS & SENSORS



CONSUMER PRODUCTS

