Advantages of Using Peacock Color’s Color Concentrate, Pre-Colored and Modified Resins:

Our job is to take pigments, dyes, additives and modifiers in their raw form and combine and disperse them in highly loaded systems at lower cost, that allow you to run faster lines or cycle times.

The four basic types of color concentrate and compounding technology are single screw, twin screw, continuous mixer and buss kneader. Kneaders produce finely dispersed particles that are uniformly distributed in a short L/D (length/diameter) with low heat history that yield optimum physical properties, tensile strength and color. Higher pigment and additive concentrations than on conventional systems can be attained. Shear, heat history, residence time, pressure and inadequate venting of moisture in hydroscopic resins are inherent problems with other extrusion technologies. Chemicals in the form of liquids or with extremes in viscosity can be successfully incorporated and dispersed.

The development of “new resins” and “engineering plastics” require sophisticated processing equipment. Compounding and coloring engineering thermoplastic formulations requires skill. The melting points are higher and fluxing range is narrow. Some materials (such as PVC, Acetal (Delrin® and Celcon®), Barex® or linear polyester) are very susceptible to thermal degradation. We have the ability to color or modify virtually any polymer ranging from polyamide, polyester, PVC, or liquid crystal polymer to thermoset epoxy (powder coating.)

Peacock Colors is able to compound, toll blend, reprocess, modify and experiment with existing formulations. We currently supply products for injection molding, rotational, extrusion, film, fiber, and thermoset industries.

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