

Essential Facts of Powder Coating

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Although a finish represents only one attribute of a coated part, it is the most visible and influential characteristic to the consumer. Powder coatings have a positive impact on the consumer, both directly and indirectly, and provide solutions to issues of public concern. Powder coatings have become the coating technology of choice for consumable goods from toolboxes, bicycles, office furniture, and lawn furniture to widespread markets such as appliance and automotive for the reasons listed below.

Quality

The unique rheological and application characteristics of powder coatings provide superior consistency and uniformity of finish without sags, drips, runs, or bubbles. They provide extremely tough, durable films, enhancing the high quality, value-added image of consumer products. In general, the performance properties, such as impact resistance, flexibility, and corrosion resistance, of powder coatings are better than liquid paints. Powder coated parts resist cracking, peeling, and marring during handling and normal service use. In many cases, merchandise is specifically being advertised as "POWDER COATED" because of the quality image it projects.

Economics

Powder coatings are frequently a cost saving alternative to liquid paints with respect to energy savings, labour costs, rework costs, material usage, waste disposal and overall line efficiency. The advantage to manufacturers and the consumers is a coated part with a superior quality finish at a reasonable cost.

Environmental

Environmental issues are of significant interest and importance to the government and general public today. Unlike many liquid paints, powder coatings are compliant with environmental regulations. Liquid paints often contain solvents, which can contribute to air pollution and, in some cases, ozone depletion. Powder coatings are free of such pollutants. Wet painting processes can generate sludge, which must be disposed of into hazardous waste landfills. Properly formulated powder coatings generate no such hazardous waste. The consumer can feel good about buying a powder-coated product, which is environmentally responsible.