



BRILLIANT OUTLOOK FOR PAINTED PARTS

ColorForm

Paint application in the closed mold

COLORFORM IS REVOLUTIONIZING THE PRODUCTION OF PARTS WITH A HIGH-GLOSS FINISH

ColorForm makes it possible to apply a high-gloss coating directly to the part in the closed mold. The process is a unique combination of injection and reaction molding with major benefits for processors. Paint is applied in a single-stage process which completely eliminates conventional paint-shop techniques.

The process

The ColorForm process was developed through successful in-house collaboration between our injection molding and reaction processing experts. In this process, the paint system is applied directly in the mold – precisely, in thin layers and with very economical use of paint. The paint layer cures completely in the closed mold. The process adds value and produces finished parts, ready for the next production step. ColorForm can be used with a huge range of colors, from transparent to piano black. It also supports flexible color management and can operate with 1-component and 2-component paint systems.

Applications

ColorForm is an alternative production concept for parts with high-gloss surfaces. It can be combined with many different substrate materials – thermoplastics, thermosets and PUR.

To sum up

The ColorForm direct process can successfully replace conventional painting processes, completely eliminating the pre- and post-paint steps. The result is a higher yield of quality parts and far lower manufacturing costs for parts with a high-gloss finish.

COLORFORM – YOUR BENEFITS AT A GLANCE:

First-class product properties

- High-gloss surfaces in a single-sequence process
- Superlative deep-luster effects for clear varnish applications
- High scratch resistance
- Definable surface hardness
- Variable coating thicknesses
- Flexible color management

Cost efficient

- Higher yield of good parts thanks to a reliable, highly-automated, single-stage process
- Lower material consumption than post-mold painting, thanks to minimal overspray
- No cleaning effort
- Fast curing times for speedy onward processing
- Significant reduction in logistics costs

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KraussMaffei is a premium partner for the plastics and rubber processing industries worldwide.