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Get Color Right

Kleurkwaliteit zonder discussie: van visuele beoordeling naar digitale kleur communicatie.

woensdag 7 oktober 2026



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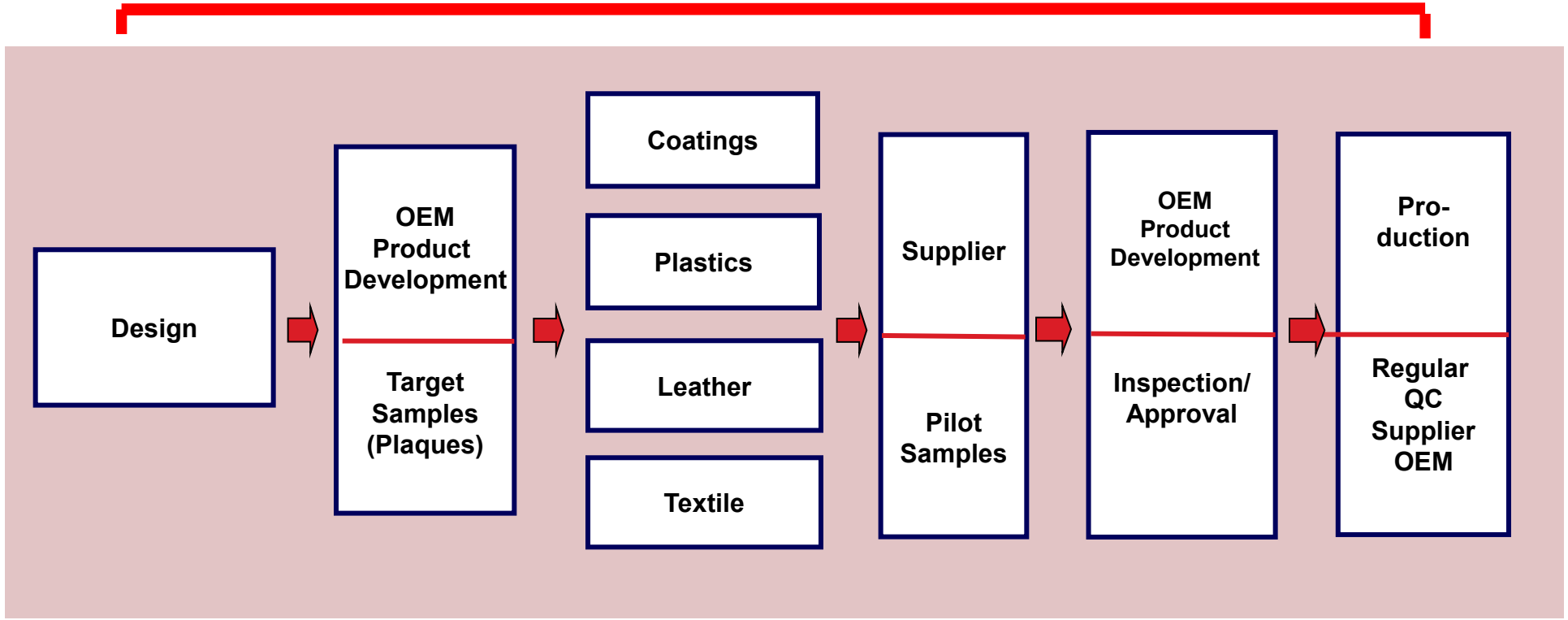
Who We Are

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Color Communication

From design to production



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Requirements for digital color communication

You need to speak the same language!

Color Measurement devices

- Measurement Geometry
- Measurement Conditions
- Temperature & Humidity

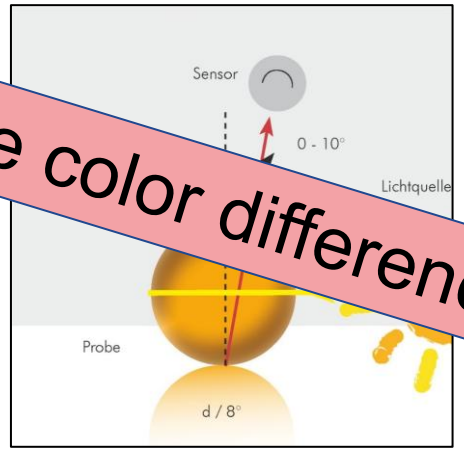
Color Specification and Pass Fail tolerances

- Color Equation
- Illuminant & observer definition
- Realistic tolerances



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Color Measurements: Geometries

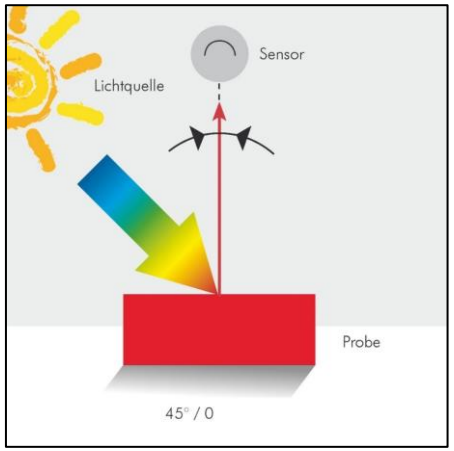


d8 Measurement Geometry.

Captures the color: The d8 geometry uses an integrating sphere to provide uniform diffuse light, with the detector positioned at an 8° angle to receive the reflected light.

It effectively reduces the influence of surface gloss and texture, providing more stable color ...urements

...digital color communication and color matching



45/0 or 0/45 Measurement Geom...

Simulates Human Vision: The 45/0 geometry, ...ource illuminates the sample at a 45° angle and the detector receives the reflected li... ...mics how the human eye perceives color and appearance.

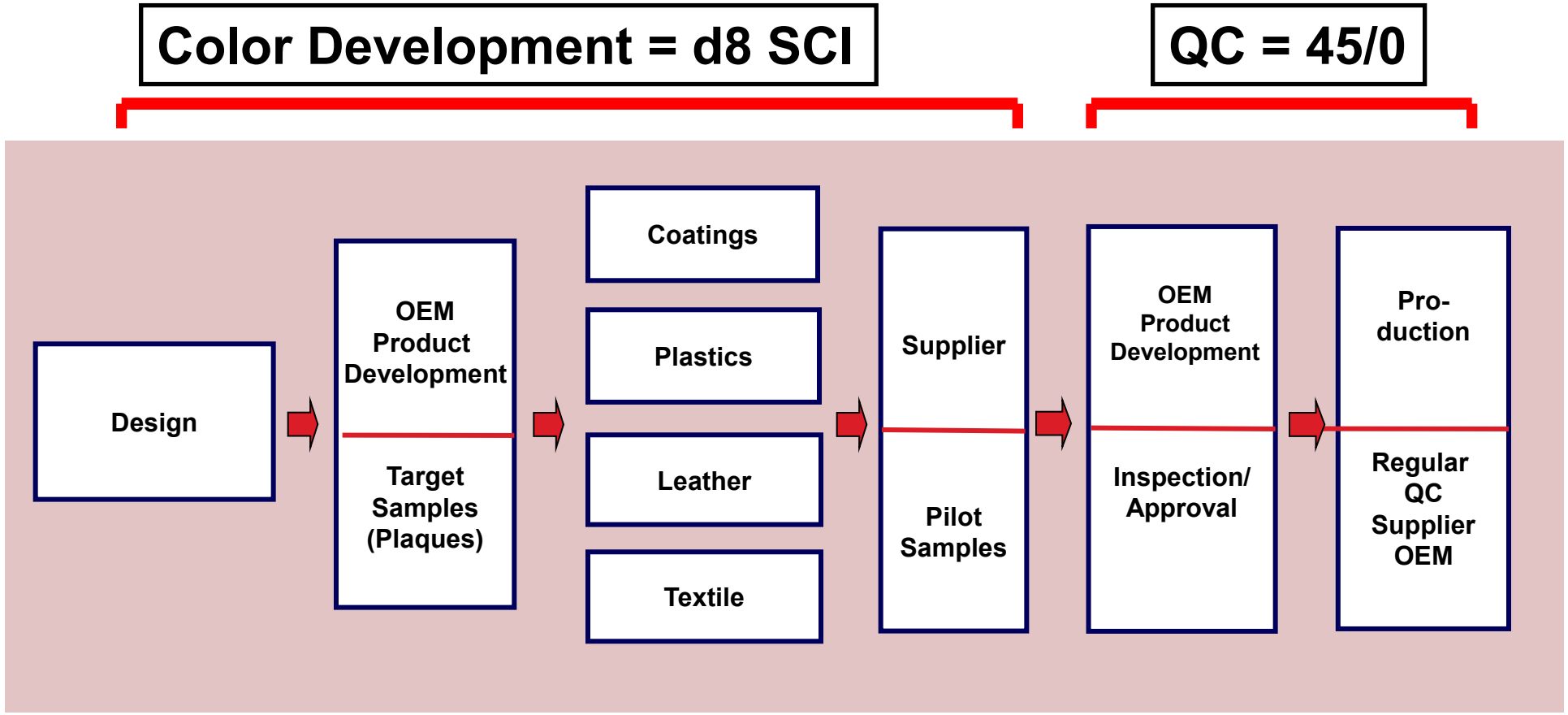
It is sensitive to surface properties like gloss and texture, making it ide... where the appearance of the sample, including gloss and texture, is important

Commonly used for quality control and final inspection

The color difference with a 45/0 is not equal to the color difference with a d8

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What geometry to use?



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Digital maturity & Color communication journey

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Physical Sample



QTX file



Digital Collaboration Platform



Manufacturer



Production sites

Conventional color communication

- CO2 emission
- Costs
- Time

Digital Color communication 1.0 representation

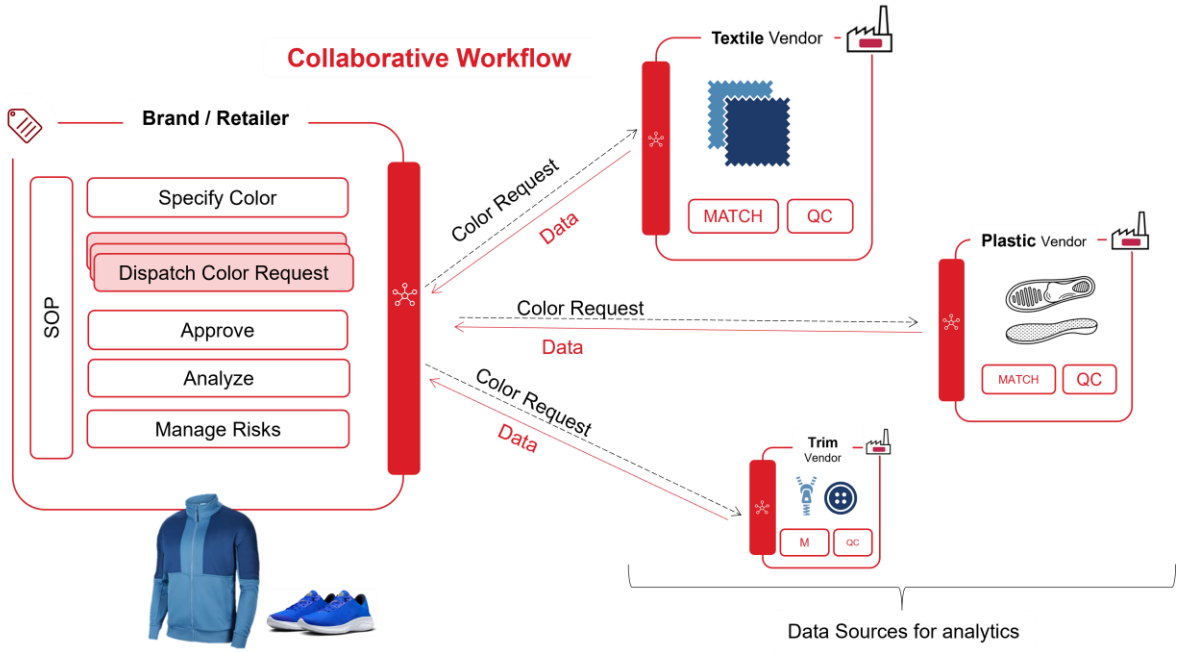
- Instrument
- Illuminant?
- Tolerances?
- Is my order track?

Digital Color Communication 2.0

End-to-end process from design to production



What is next?



- **Digital cloud based communication platforms** are entering the industry, currently mainly used in the Textile Supply chain, but there is a need in other industries also.
- **AI-Driven QC:** AI will be embedded in new generations of software.
- **Analytics:** Color digitization aligns with Industry 4.0 goals with data collection and predictive analytics using AI
- **Inline QC:** Measure during the production process if possible.
- **Camera based Instruments:** Capture color and appearance.

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