

SF COLORCODING

MECHANICAL DESIGN AUTOMATION



3D COLORCODING for Tolerance and Quality Specification

SF COLORCODING for PTC Creo is the tool for the fully automated assignment of colors for tolerance definition in the CAD model.

SF COLORCODING not only eliminates the need to manually create a 2D drawing but also the need for having to mark tolerances.

Define tolerances and properties directly in your 3D model

SF COLORCODING enables users to set tolerances and properties of surfaces using automated color assignments directly in the 3D Creo model (MBD / PMI). Color-coded quality specifications of the 3D parts can be directly used for NC and CMM programming, which reduces manual and time-consuming steps for tolerancing the elements in a 2D drawing.

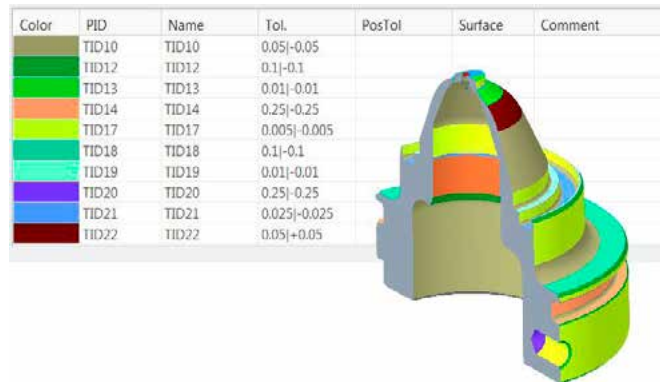
SF COLORCODING is directly integrated into Creo Parametric and allows color assignment of the selected features at the push of a button.

Easy operation

- Individual, customer specific color and tolerance palettes can easily be defined
- The user interface allows the selection and assignment of colors out of the selected palette as well as the analysis of the already assigned colors and storing of the colors in the model
- Information regarding the assigned surface/feature colors can be accessed easily

Capabilities

- Selection of company specific color palettes (tolerance definition)
- Assignment of colors from the selected color palette to single surfaces, features and groups
- Advanced assignment options by
 - layers
 - feature parameters
 - feature type
 - feature name
- Analysis of colors already assigned



Color coded part in Creo

- Ability to store color information in the model
- Update the color assignment by analyzing the saved information in the model and features

Benefits

- Easy-to-use user interface
- Time saved since the manual tolerance assignment in 2D drawings is no longer required
- Avoidance of issues by using automation
- Customer specific color palettes can be defined easily
- Colors can be removed from the model and restored later
- Information on surface specifications represented by the colors can be accessed via the user interface
- Tolerances and specifications can be used directly in NC and CMM programming tools

SF Summary

- **SF** COLORCODING transfers tolerances to 3D models using color assignment
- Tolerances can be provided for NC and CMM programming tools using the color code
- Individual color palettes can be defined by the customer



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