



## Our Know-how – Your Advantage

High Resistance TPE for Cosmetics (VS/FC/CR series) is the COPEC®-based material solution for packaging requirements. The compounds are characterized by chemical resistance to common substances used in cosmetic products, such as isododecane. They are available in natural colors and can be colorized in many ways.

- Resistance to isododecane and sebum
- Optimized mechanical properties
- Abrasion resistance
- Hardness from 65 to 85 Shore A
- Demolding / Processing
- Adhesion to TPC, PETG and COPEC®
- Materials are compliant to
  - » REACH
  - » RoHS
  - » California Proposition 65
  - » Regulation (EU) No 10/2011
  - » US FDA CFR 21 (raw material conformity)
  - » Mercosur N° 39/19
  - » ISO 10992-23 (Skin irritation)
  - » EN 71-3
- Free from animal ingredients
- In-process recycling possible
- Colorable

## Application Specialist Dirk Olberding

“Over decades, our TPEs have established themselves in the field of cosmetic packaging and applications. After thorough testing phases, we now also offer mature alternatives for water-resistant cosmetics, with a unique combination of chemical resistance and good processability.”

## Typical Applications

- Cosmetic packaging
- Lip gloss applicators
- Mascara brushes
- Cosmetic wipers
- Droppers



## Technical Data

|                                           |                   | TF7STE<br>FC/CS series | TF7FMA<br>FC/AD1 series | CF7DJG-NTRL<br>VS/FC/CR series |
|-------------------------------------------|-------------------|------------------------|-------------------------|--------------------------------|
| Hardness                                  | Sh A              | 75                     | 67                      | 75                             |
| Density                                   | g/cm <sup>3</sup> | 0.890                  | 1.100                   | 1.150                          |
| Tensile Strength                          | MPa               | 13.0                   | 4.5                     | 11.0                           |
| Elongation at Break                       | %                 | 750                    | 480                     | 660                            |
| Tear Resistance                           | N/mm              | 27.5                   | 18.0                    | 22.0                           |
| Flow Spiral<br>[760 bar, 200 °C]          | cm                | 68                     | 24                      | 51                             |
| Isododecane resistant<br>[14 days, 40 °C] |                   | -                      | -                       | ✓                              |
| CS 72 h / 23 °C                           | %                 | 35                     | 32                      | 24                             |
| Regulation (EU)<br>No 10/2011             |                   | ✓                      | ✓                       | ✓                              |
| US FDA CFR 21                             |                   | raw material           | raw material            | raw material                   |

## TALK TO OUR EXPERTS!

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