

FC/CM2 Series

THERMOLAST® K

The FC/CM2 series is your material solution for fatty food contact applications. It has an extremely low migration potential and good organoleptic properties. The compounds are available in translucent colors or pre-colored.

Typical applications

- Closures
- Function and design elements
- · Household articles
- Membranes
- Packaging (for food and careproducts)
- Seals
- · Soft touch
- Squeeze bottles
- Valves

Material advantages

- · Adhesion to PP
- · Applications with food contact
- Easy coloring
- Excellent mechanical properties
- FDA Code of Federal Regulations (CFR), Title 21
- For injection molding
- · Low density
- · Perfect surface finish
- Recyclable
- Regulation (EU) No 10/2011

Processing Method: Injection Molding

| | Color / RAL DESIGN | Hardness DIN ISO 7619-1 ShoreA | Density DIN EN ISO 1183-1 g/cm3 | Tensile Strength ¹ DIN 53504/ISO 37 MPa | Elongation at Break ¹ DIN 53504/ISO 37 % | Tear Resistance ISO 34-1 Methode B (b)(Graves) N/mm | CS 72 h/23 °C DIN ISO 815-1 Method A % |
|--------|--------------------|---|--|---|---|--|---|
| TF4CMB | translucent | 40 | 0.900 | 11.0 | 900 | 7.5 | 20 |
| TF5CMB | translucent | 50 | 0.900 | 12.5 | 900 | 14.5 | 22 |
| TF6CMB | translucent | 60 | 0.900 | 14.5 | 900 | 23.5 | 22 |
| TF7CMB | translucent | 70 | 0.900 | 15.0 | 900 | 31.0 | 26 |
| TF8CMB | translucent | 80 | 0.900 | 17.0 | 900 | 42.5 | 30 |

¹ Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.

All values published in this data sheet are rounded average values.







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| Culindar town oretime | 400 400 200 °C may 225 °C (200 270 200 °F 445 °F) | | | |
|-------------------------|--|--|--|--|
| Cylinder temperature | 180 - 190 - 200 °C, max. 235 °C (360 - 370 - 390 °F, max. 445 °F) | | | |
| Hotrunner | Hot runner temperatures: 200 - 235 °C (390 - 455 °F). The runner should be empty after a maximum of 2 - 3 shots. | | | |
| njection pressure | 200 - 1000 bar (2900 - 14504 psi) (depending on the size and weight of the part). | | | |
| Injection rate | In general, the fill time should not be more than 1–2 seconds. | | | |
| Hold pressure | We recommend to derive the optimum hold pressure from determining the solidification point, starting with 40 % - 60 % of the required injection pressure. | | | |
| Back pressure | 20 - 100 bar; if color batches are used, higher back pressure is necessary. | | | |
| Screw retraction | If an open nozzle is used processing with screw retraction is advisable. | | | |
| Mold temperature | 25 - 40 °C (77 - 104 °F) The use of mold release agents can have an influence on the microbiologic resistance. | | | |
| Predrying | Pre drying of the material is not necessary; if surface moisture forms as a result of changes in temperature, the material should be dried for 2 - 4 hours at 60°C (140° F). | | | |
| Needle valve | With materials < 50 Shore A the use of a needle valve is advisable. | | | |
| Screw geometry | Standard 3-zone polyolefine screw. | | | |
| Residence time | The residence time is to be set as short as possible with a maximum of 10 minutes. | | | |
| Cleaning recommendation | For cleaning and purging of the machine it is appropriate to use polypropylene or polyethylene. | | | |



