

FC/CM1 Series

THERMOLAST® K

The FC/CM1 series is your material solution for fatty food contact applications. It has a low migration potential and excellent 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 %
TF4CMA	translucent	40	0.900	8.0	900	14.0	30
TF5CMA	translucent	50	0.900	8.5	800	19.5	30
TF6CMA	translucent	60	0.900	9.0	800	22.0	32
TF7CMA	translucent	70	0.900	10.5	850	28.5	36
TF8CMA	translucent	80	0.900	12.0	850	33.0	36

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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Culinder temperature	180 - 190 - 200 °C, max. 235 °C (360 - 370 - 390 °F, max. 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 microbiological 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. Machine must be PVC-free.			



