

CELCON[®] FC2010

CELCON®

- Carbon fiber reinforced
- High stiffness

Product information Resin Identification Part Marking Code	POM-CF10 >POM-CF10<		ISO 1043 ISO 11469
Rheological properties Moulding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Typical mechanical properties Tensile modulus Tensile stress at break, 5mm/min Nominal strain at break Flexural modulus Flexural strength Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C Poisson's ratio [C]: Calculated	1.2 8500 200 4	MPa %	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eA
Thermal properties Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Coefficient of linear thermal expansion (CLTE), parallel Electrical properties	165 160 20	-	ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2
Surface resistivity	100000	Ohm	IEC 62631-3-2
Physical/Other properties Water absorption, 2mm Density	0.2 1430	% kg/m³	Sim. to ISO 62 ISO 1183
Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature Hold pressure range	60	h % °C °C °C m/s °C °C °C	

Printed: 2025-05-30

(+) **18816996168** Ponciplastics.com



CELCON[®] FC2010

Characteristics

Processing Delivery form Special characteristics

Additional information

Processing Notes

Injection Moulding Pellets Increased electrical conductivity

Pre-Drying

Being a non-hydroscopic material, KEPITAL® in its original packages can be processed without pre-drying unless it is exposed to a humid atmosphere for a prolonged periods of time. However, sometimes moisture that exists on the surface of pellet caused by improper handling or storage may result in a silver streak or nozzle drooling, so drying prior to molding may be necessary to prevent KEPITAL® from having these problems. In addition, in some cases, pre-drying is effective in reducing odor, mold deposits and in achieving improved surface appearance quality. Drying conditions are recommended at 80-90 °C for 3-4 hours.

Printed: 2025-05-30

Page: 2 of 2

Revised: 2025-01-23 Source: Celanese Materials Database

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. Contained in this publication is accurate; however, we do not assume any liability of the dusers to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material industion for handling each material th

© 2025 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.