



100 1040

CELCON® F40-03 Colored

CELCON®

CELCON® F40-03 Colored is a standard unfilled(extremely low-viscosity) grade for general injection molding (colored). Suitable for multi-cavity molds and thin-walled precision parts

DOM

Product	t int	form	ation
Danin Id	اجمما	ficati	

Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt mass-flow rate Melt mass-flow rate, Temperature	50 190	g/10min °C	ISO 1133
Melt mass-flow rate, Load	2.16	kg	
Moulding shrinkage, parallel	2.0	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile stress at yield, 50mm/min	65	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	7	%	ISO 527-1/-2
Nominal strain at break	20		ISO 527-1/-2
Flexural modulus	2750		ISO 178
Flexural strength		MPa	ISO 178
Charpy notched impact strength, 23°C	3.5	kJ/m²	ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	101	°C	ISO 75-1/-2
Flammability			
Burning Behav. at thickness h	НВ	class	IEC 60695-11-10
Thickness tested		mm	IEC 60695-11-10
Physical/Other properties			
Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density		kg/m³	ISO 1183
Donotty	1110	Ng/III	100 1100
Injection			
Drying Recommended	no		
Drying Temperature	100	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Processing Moisture Content	≤0.2	%	
Melt Temperature Optimum	195	-	
Min. melt temperature	180		
Max. melt temperature	210		
Screw tangential speed	≤0.3		
Mold Temperature Optimum		°C	
Min. mould temperature		°C	
Manager and all targets and to the		0.63	

Printed: 2025-05-30 Page: 1 of 2

80 °C

60 - 120 MPa

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

Max. mould temperature

Hold pressure range





CELCON® F40-03 Colored

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics High Flow

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. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users 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 e

© 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.