



CELCON® F20-03 LOF2

CELCON®

A low-emission (low-to-medium viscosity) grade for general injection molding. Features improved heat stability.

\mathbf{P}	r	റ	$\boldsymbol{\cap}$	ш	JO.	tι	ın	١t	<u> </u>	rı	m	2	ŤΙ	or	٦.
		v	u	u		L		и	v	ш	ш	ıa	ш	וטו	

Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt mass-flow rate Melt mass-flow rate, Temperature	190		ISO 1133
Melt mass-flow rate, Load Moulding shrinkage, parallel	2.16 2.0	-	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	2750	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min		MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Nominal strain at break	32	%	ISO 527-1/-2
Flexural modulus	2550	MPa	ISO 178
Flexural strength		MPa	ISO 178
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30 °C Poisson's ratio	5.5 0.397	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	100	°C	ISO 75-1/-2
Coefficient of linear thermal expansion	120	E-6/K	ISO 11359-1/-2
(CLTE), parallel			
Electrical properties			
Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2
Electric strength	19	kV/mm	IEC 60243-1
Physical/Other properties			
Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density	1410	kg/m³	ISO 1183
Injection			
Drying Recommended	no		
Drying Temperature	100	°C	
Drying Time, Dehumidified Dryer	3 - 4		
Processing Moisture Content	≤0.2		
Melt Temperature Optimum	185		
Min. melt temperature	180	°C	
Many and the area and the area	100	0.0	

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

190 °C

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

Max. melt temperature





CELCON® F20-03 LOF2

CELCON®

Screw tangential speed≤0.3 m/sMold Temperature Optimum70 °CMin. mould temperature60 °CMax. mould temperature80 °CHold pressure range60 - 120 MPaBack pressure2 MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics Heat stabilised or stable to heat, Low emissions

Additional information

Injection molding Processing

mold temperature: $60^{\circ}\text{C} \sim 80^{\circ}\text{C}$ ($140^{\circ}\text{F} \sim 176^{\circ}\text{F}$) barrel temperature: $170^{\circ}\text{C} \sim 190^{\circ}\text{C}$ ($338^{\circ}\text{F} \sim 374^{\circ}\text{F}$)

screw speed: 150mm/s ~ 200mm/s

back pressure: max. 20 bar

Processing Notes Pre-Drying

It is recommended to dry material at 80° C $\sim 90^{\circ}$ C (176° F $\sim 194^{\circ}$ F) for $3h \sim 4h$ if

necessary.

suggest max. moisture: 0.1%

Automotive

OEM STANDARD ADDITIONAL INFORMATION

Geely Q/JLY J7110235B-2018(2)

HyundaiMS237-12 Type AUlsan, KoreaHyundaiMS941-03 Type M-1Ulsan, KoreaNION-008-0002Ulsan, Korea

SAIC Motor SMTC 5 4000 003 Natural, Ulsan, Korea

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 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 equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users

© 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.