CELCON® FG2020 LOF BK

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CELCON® FG2020 LOF BK is:
- A 20% glass fiber-reinforced grade for general injection molding (black colored)
- A low emission grade featuring improved heat stability.
- Suitable for parts requiring extermely high strength, high stiffness, high deflection temperature, and excellent creep resistance

Product information

Resin Identification	POM-GF20	ISO 1043
Part Marking Code	>POM-GF20<	ISO 11469

Rheological properties

Melt mass-flow rate	8.2	g/10min	ISO 1133
Melt mass-flow rate, Temperature	374	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at break, 5mm/min	18100	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8	%	ISO 527-1/-2
Flexural modulus	1.07E6	psi	ISO 178
Flexural strength	23900	psi	ISO 178
Charpy notched impact strength, 23°C	2.85	ftlb/in²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3

Electrical properties

Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density	0.0556	lb/in³	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	365	°F
Min. melt temperature	356	°F
Max. melt temperature	374	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	140	°F
Max. mold temperature	176	°F

Revised: 2026-04-22 Source: Celanese Materials Database

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Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3	s

Automotive

OEM	ADDITIONAL INFORMATION
General Motors	Special Parts Approval, See Your CE Account Representative for Further Details.

Characteristics

Processing	Injection Molding
Special characteristics	Low emissions

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