CELCON® FG2025 LOF

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CELCON® FG2025 LOF is a 25% glass fiber-reinforced grade for general injection molding.
Low emission grade featuring thermal stability.
Suitable for parts requiring extermely high strength, high stiffness, high deflection temperature, and excellent creep resistance

Product information

Resin Identification	POM-GF25	ISO 1043
Part Marking Code	>POM-GF25<	ISO 11469

Rheological properties

Melt mass-flow rate	7	g/10min	ISO 1133
Melt mass-flow rate, Temperature	374	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at break, 5mm/min	20300	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5	%	ISO 527-1/-2
Flexural modulus	1.16E6	psi	ISO 178
Flexural strength	27600	psi	ISO 178
Charpy notched impact strength, 23°C	3.33	ftlb/in^2	ISO 179/1eA

Thermal properties

Temperature of deflection under load, 1.8 MPa	324	°F	ISO 75-1/-2

Physical/Other properties

Density	0.0574	lb/in^3	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
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	2h^2-3	s

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

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Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Hyundai	MS237-12 Type F	Pyeongtaek,Korea

Characteristics

Processing	Injection Molding
Special characteristics	Low emissions

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