CELCON® F20-52 LOF Colored

CELCON®

A UV-stabilized medium-viscosity grade for general injection molding.
A low-emission grade featuring improved heat stability
Developed for interior parts with variable pre-colored

Product information

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

Rheological properties

Melt mass-flow rate	10	g/10min	ISO 1133
Melt mass-flow rate, Temperature	374	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	2.0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at yield, 50mm/min	8700	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	30	%	ISO 527-1/-2
Flexural modulus	363000	psi	ISO 178
Flexural strength	11900	psi	ISO 178
Charpy notched impact strength, 23°C	2.85	ftlb/in^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Coefficient of linear thermal expansion (CLTE), parallel	0.72	E-4/°F	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.0315	in	IEC 60695-11-10

Electrical properties

Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2
Electric strength	483	kV/in	IEC 60243-1

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density	0.0509	lb/in^3	ISO 1183

Injection

Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.1	%

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

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Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
General Motors	GMW22P-POM-C2	Black
General Motors	GMW22P-POM-C2	Natural

Characteristics

Processing	Injection Molding
Special characteristics	U.V. stabilized or stable to weather, Low emissions

Additional information

Processing Notes

Pre-Drying

It is recommended to dry material at 80°C ~ 100°C (176°F ~ 212°F) for 3h ~ 4h if necessary.
suggest max. moisture: 0.1%

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