CELCON® TS-25A LOF

CELCON®

- A wear-resistance grade modified with a special silicone for general injection molding.
- Designed for applications requiring low wear and friction.
- A low-emission grade featuring improved heat stability.

Product information

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

Rheological properties

Melt mass-flow rate	13	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	8100	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Nominal strain at break	45	%	ISO 527-1/-2
Flexural modulus	341000	psi	ISO 178
Flexural strength	11300	psi	ISO 178
Charpy notched impact strength, 23°C	3.57	ftlb/in^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	194	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.72	E-4/°F	ISO 11359-1/-2

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	0.0502	lb/in^3	ISO 1183

Characteristics

Processing	Injection Molding
Special characteristics	Low wear / Low friction, Low emissions

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

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