CELCON® FM2520S

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CELCON® FM2025S is a MoS2 modified wear resistance for general injection molding. It is suitable for parts requiring strong friction and wear resistance, particularly in contact wit metals.

Product information

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

Rheological properties

Melt mass-flow rate	11	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	8400	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Nominal strain at break	33	%	ISO 527-1/-2
Flexural modulus	348000	psi	ISO 178
Flexural strength	11600	psi	ISO 178
Charpy notched impact strength, 23°C	2.62	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	0.0498	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	383	°F
Min. melt temperature	356	°F
Max. melt temperature	410	°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

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

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

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Hyundai	MS237-09 Type E-1	Pyeongtaek,Korea

Characteristics

Processing	Injection Molding
Special characteristics	Low wear / Low friction

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