



# CELCON® F10-03H

### **CELCON®**

- A stiffness-improved(high-viscosity) grade for general injection molding.
- Features greater stiffness compared to general POM copolymer.

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Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469
Rheological properties			
Melt mass-flow rate	3	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	•	100 1100
Melt mass-flow rate, Load	2.16		
Moulding shrinkage, parallel	2.2		ISO 294-4, 2577
Woulding Shirinage, parallel	۲.۲	76	100 234 4, 231 1
Typical mechanical properties			
Tensile modulus	2800	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	68	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	12		ISO 527-1/-2
Nominal strain at break	40		ISO 527-1/-2
Flexural modulus	2650		ISO 178
Flexural strength		MPa	ISO 178
Charpy notched impact strength, 23°C		kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30 °C		kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.39	NO/III	133 176/13/1
1 01000113 14110	0.00		
Thermal properties			
Melting temperature, 10 ° C/min	170	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	100		ISO 75-1/-2
Coefficient of linear thermal expansion		E-6/K	ISO 11359-1/-2
(CLTE), parallel	•	_ •/	
Electrical properties			
	.=	0.1	
Volume resistivity		Ohm.m	IEC 62631-3-1
Surface resistivity	1E16		IEC 62631-3-2
Electric strength	19	kV/mm	IEC 60243-1
Physical/Other properties			
	0.0	0/	Cim to ICO 60
Humidity absorption, 2mm	0.2		Sim. to ISO 62
Density	1410	kg/m³	ISO 1183
Injection			
Drying Recommended	no		
Drying Temperature	100	°C	
Drying Time, Dehumidified Dryer	3 - 4		
Processing Moisture Content	≤0.2		
Melt Temperature Optimum	195		
Min. melt temperature	180		
•	210		
Max. melt temperature	210	C	

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Revised: 2025-01-23 Source: Celanese Materials Database





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Screw tangential speed $\leq$ 0.3 m/sMold Temperature Optimum70 °CMin. mould temperature60 °CMax. mould temperature80 °CHold pressure range60 - 120 MPa

#### Characteristics

Processing Injection Moulding, Extrusion, Sheet Extrusion, Other Extrusion

Delivery form Pellets

#### **Automotive**

OEM STANDARD ADDITIONAL INFORMATION

General Motors GMW22P-POM-C1

HyundaiMS237-05 Type E-1Ulsan, KoreaHyundaiMS237-14 Type AUlsan, KoreaHyundaiMS941-03 Type M-1Ulsan, KoreaMercedes-BenzDBL5405Ulsan, Korea

Renault Ulsan, Korea, No Spec, Special Part Approval,

See Your CE Account Manager.

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