



CELCON® F40-34

CELCON®

- A standard unfilled and extra easy-flowing (ultra low-viscosity) grade for general injection molding
- Suitable for multi-cavity molds and thin-walled precision parts

Product information

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Resin Identification Part Marking Code	POM >POM<	ISO 1043 ISO 11469
Rheological properties		
Melt mass-flow rate Melt mass-flow rate, Temperature Melt mass-flow rate, Load Moulding shrinkage, parallel	75 g/10min 190 °C 2.16 kg 2.0 %	ISO 1133 ISO 294-4, 2577
Typical mechanical properties		
Typical mechanical properties Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at yield, 50mm/min Nominal strain at break Flexural modulus Flexural strength Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C Poisson's ratio	2900 MPa 65 MPa 7 % 13 % 2700 MPa 93 MPa 3.5 kJ/m ² 2.2 kJ/m ²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA
Thermal properties Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Coefficient of linear thermal expansion (CLTE), parallel	165 °C 101 °C 120 E-6/K	ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2
Electrical properties Volume resistivity Surface resistivity Electric strength	1E12 Ohm.m 1E16 Ohm 19 kV/mm	IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1
Physical/Other properties		
Humidity absorption, 2mm Density	0.2 % 1410 kg/m³	Sim. to ISO 62 ISO 1183
Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature	no 100 °C 3-4 h ≤0.2 % 195 °C 180 °C 210 °C	

Printed: 2025-05-30 Page: 1 of 4

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





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Screw tangential speed≤0.3 m/sMold Temperature Optimum70 °CMin. mould temperature60 °CMax. mould temperature80 °CHold pressure range60 - 120 MPaBack pressure2 MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets
Special characteristics High Flow

Additional information

Injection molding Processing

mold temperature: 60° C $\sim 80^{\circ}$ C $(140^{\circ}$ F $\sim 160^{\circ}$ F) barrel temperature: 170° C $\sim 210^{\circ}$ C $(338^{\circ}$ F $\sim 410^{\circ}$ F)

screw speed: 150mm/s ~ 200mm/s

back pressure: max. 20bar

Processing Notes Pre-Drying

suggested pre-drying condition: 80 $^{\circ}$ C \sim 90 $^{\circ}$ C (176 $^{\circ}$ F \sim 194 $^{\circ}$ F) 3 h \sim 4 h

suggested max. moisture:0.1%

Printed: 2025-05-30 Page: 2 of 4

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

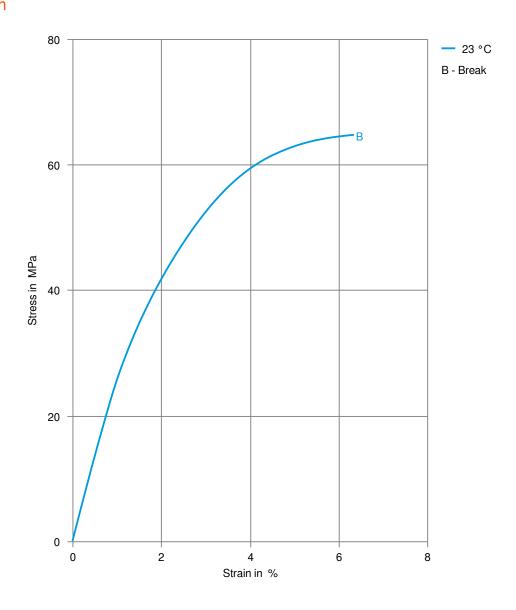




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Stress-strain



Printed: 2025-05-30 Page: 3 of 4

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

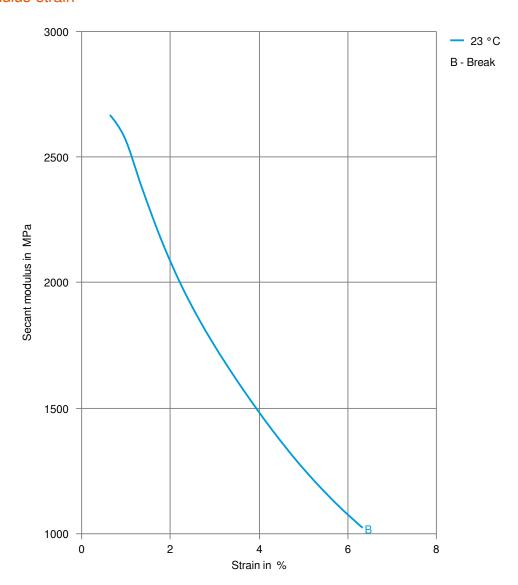
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Secant modulus-strain



Printed: 2025-05-30 Page: 4 of 4

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

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