

CELCON[®] F10-52D

CELCON®

- A UV-stabilized high-viscosity grade for general injection molding.

Product information			
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	3 190 2.16		ISO 1133
Moulding shrinkage, parallel	2.2	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile strain at yield, 50mm/min Tensile stress at break, 50mm/min Nominal strain at break Flexural modulus Flexural strength Charpy notched impact strength, 23°C Poisson's ratio	55 42 2250 75		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		°C °C E-6/K	ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2
Electrical properties			
Volume resistivity Surface resistivity Electric strength	1E16	Ohm.m Ohm kV/mm	IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1
Physical/Other properties			
Humidity absorption, 2mm Density	0.2 1370	% 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 Screw tangential speed Mold Temperature Optimum Min. mould temperature		h % °C °C °C	

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Max. mould temperature Hold pressure range 80 °C 60 - 120 MPa

Characteristics

Processing Delivery form Special characteristics Injection Moulding, Extrusion Pellets U.V. stabilised or stable to weather

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

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