



CELCON® TC3020

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CELCON® TC3020 is a Polyoxymethylene (POM) grade reinforced with 20% talcum. Offers excellent thermal stability and stronger resistance to alkalis than acetal homopolymer. Possesses wide range of working temperature and high tolerance to organic chemicals. Exhibits fatigue-, creep resistance and better flow enabling high speed production. Shows resistance to friction and wear. Is suitable for processing by injection molding. Used in electrical & electronics, automotive and industrial parts. Recommended for parts requiring dimensional stability and low stress deformation.

Product information

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Resin Identification Part Marking Code	POM-T20 >POM-T20<		ISO 1043 ISO 11469
Rheological properties			
Melt mass-flow rate Melt mass-flow rate, Temperature Melt mass-flow rate, Load	5 190 2.16	_	ISO 1133
Moulding shrinkage, parallel	1.4	~	ISO 294-4, 2577
Typical mechanical properties			
Tensile stress at break, 5mm/min	67 5.6	MPa	ISO 527-1/-2
Nominal strain at break Flexural modulus	5290		ISO 527-1/-2 ISO 178
Flexural strength		MPa	ISO 178
Charpy notched impact strength, 23°C		kJ/m ²	ISO 178
Poisson's ratio	0.366	NO/III	100 170/10/1
Thermal properties			
Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	122		ISO 75-1/-2
Physical/Other properties			
Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density	1560	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		
Max. melt temperature	210		
Screw tangential speed	≤0.3	m/s °C	
Mold Temperature Optimum Min. mould temperature		°C	
Max. mould temperature		°C	
Hold pressure range	60 - 120		
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Revised: 2025-01-23 Source: Celanese Materials Database





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Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Mineral Filler

Special characteristics Low wear / Low friction

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