CELCON® FL2005

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CELCON® FL2005 is a 5% PTFE powder filled grade, good for general injection molding. It is suitable for parts that are required of low wear and friction.

Product information

Resin Identification	(POM+PTFE)	ISO 1043
Part Marking Code	>(POM+PTFE)<	ISO 11469

Rheological properties

Melt mass-flow rate	9	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	8.5	%	ISO 527-1/-2
Nominal strain at break	15	%	ISO 527-1/-2
Flexural modulus	370000	psi	ISO 178
Flexural strength	11900	psi	ISO 178
Charpy notched impact strength, 23°C	1.66	ftlb/in^2	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	0.0516	lb/in^3	ISO 1183

Characteristics

Processing	Injection Molding
Special characteristics	U.V. stabilized or stable to weather, Low wear / Low friction

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