

KEPITAL® FL2005

A 5% PTFE powder filled grade for general injection molding

KEPITAL 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.

Rheological properties

Moulding shrinkage, parallel	2.0 %	ISO 294-4, 2577
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Typical mechanical properties

Yield stress, 50mm/min	58 MPa	ISO 527-1/-2
Yield strain, 50mm/min	8.5 %	ISO 527-1/-2
Nominal strain at break	15 %	ISO 527-1/-2
Flexural Modulus	2550 MPa	ISO 178
Flexural Strength	82 MPa	ISO 178
Charpy notched impact strength, 23°C	3.5 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	165 °C	ISO 11357-1/-3
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Electrical properties

Volume resistivity	>1E14 Ohm.m	IEC 62631-3-1
Surface resistivity	>1E16 Ohm	IEC 62631-3-2

Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Density	1430 kg/m ³	ISO 1183