

ZENITE® 51301L

30% glass-reinforced, lubricated
 Zenite 51301L is a 30% glass-filled LCP resin with improved toughness

Rheological properties

Moulding shrinkage range, parallel	0.1 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	10000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	145 MPa	ISO 527-1/-2
Strain at break, 5mm/min	3.5 %	ISO 527-1/-2
Flexural Modulus	11000 MPa	ISO 178
Flexural Strength	170 MPa	ISO 178
Charpy impact strength, 23°C	38 kJ/m ²	ISO 179/1eU

Thermal properties

Melting temperature, 10°C/min	320 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	275 °C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	V-0 class	UL 94
Thickness tested	3.00 mm	UL 94

Electrical properties

Relative permittivity, 1MHz	3.3	IEC 62631-2-1
Dissipation factor, 1MHz	80 E-4	IEC 62631-2-1

Other properties

Density	1630 kg/m ³	ISO 1183
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Injection

Drying Temperature	150 °C
Drying Time, Dehumidified Dryer	3 h
Processing Moisture Content	0.01 %
Max. mould temperature	80 - 120 °C
Back pressure	3 MPa

