

ZENITE® 55205

High dielectric constant

Zenite® ZE55205 is a black reinforced LCP resin with a high dielectric constant.

Rheological properties

Moulding shrinkage range, parallel	0.1 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	14260 MPa	ISO 527-1/-2
Stress at break, 5mm/min	125 MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.5 %	ISO 527-1/-2
Flexural Modulus	12200 MPa	ISO 178
Flexural Strength	190 MPa	ISO 178
Charpy impact strength, 23°C	36 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	30 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	29 kJ/m ²	ISO 180/1A
Izod impact strength, 23°C	35 kJ/m ²	ISO 180/1U

Thermal properties

Temp. of deflection under load, 1.8 MPa	276 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	9 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70 E-6/K	ISO 11359-1/-2

Electrical properties

Relative permittivity, 1MHz	4.52	IEC 62631-2-1
Dissipation factor, 1MHz	190 E-4	IEC 62631-2-1

Other properties

Density	1890 kg/m ³	ISO 1183
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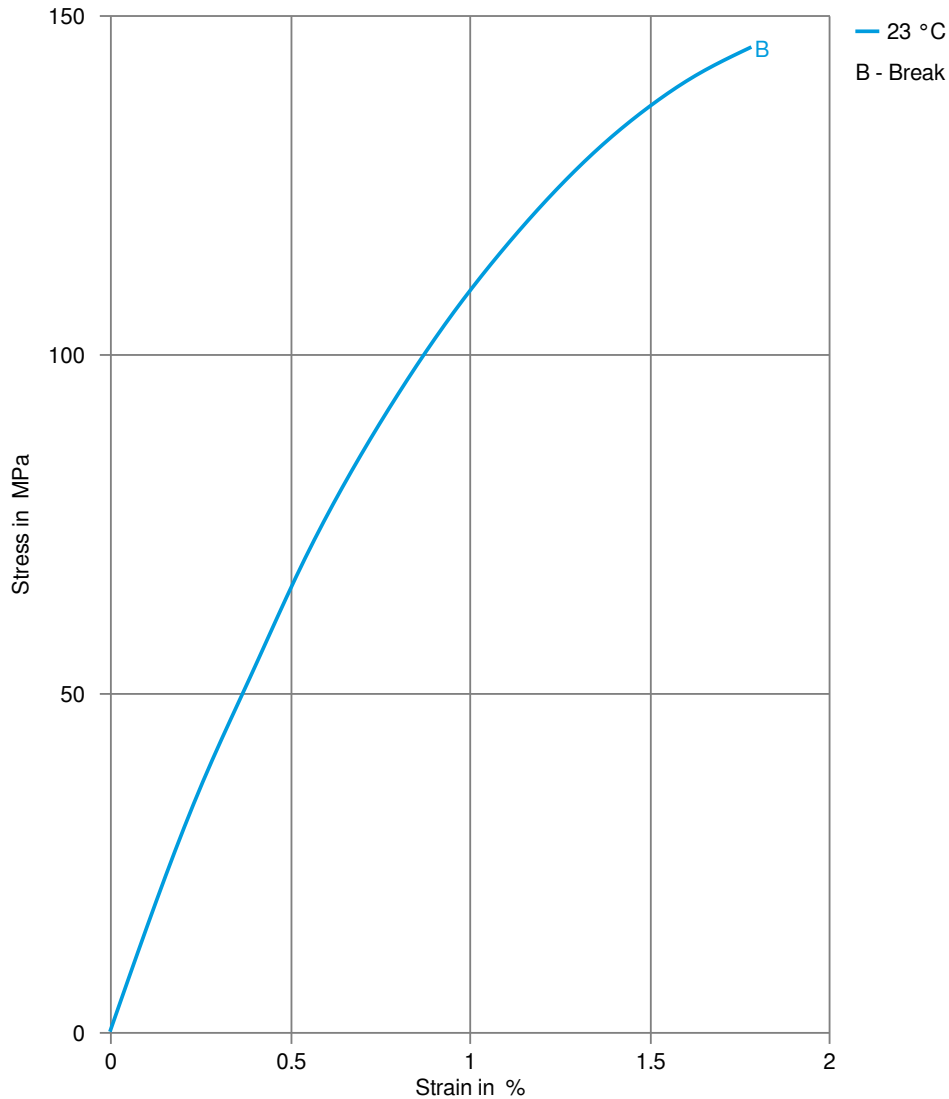
Injection

Drying Temperature	≥150 °C
Drying Time, Dehumidified Dryer	5 h
Processing Moisture Content	0.01 %
Max. mould temperature	80 - 120 °C
Back pressure	3 MPa



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Stress-strain



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Secant modulus-strain

