

ZENITE® 5115L

15% glass-reinforced, lubricated

Zenite® 5115L is a 15% glass fiber reinforced liquid crystal polymer for injection molding with improved toughness.

Rheological properties

Moulding shrinkage range, parallel	0.2 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	11500 MPa	ISO 527-1/-2
Stress at break, 5mm/min	175 MPa	ISO 527-1/-2
Strain at break, 5mm/min	3 %	ISO 527-1/-2
Flexural Modulus	10500 MPa	ISO 178
Flexural Strength	170 MPa	ISO 178

Thermal properties

Melting temperature, 10°C/min	319 °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	0.80 mm	UL 94
UL recognition	yes	UL 94

Electrical properties

Relative permittivity, 1MHz	3.29	IEC 62631-2-1
Dissipation factor, 1MHz	24 E-4	IEC 62631-2-1
Dissipation factor, 1GHz	38 E-4	IEC 62631-2-1
Relative permittivity, printed circuits and boards, 2.5 GHz	3.7	IEC 61189-2-721
Dissipation factor, printed circuits and boards, 2.5 GHz	40 E-4	IEC 61189-2-721

Other properties

Density	1500 kg/m³	ISO 1183
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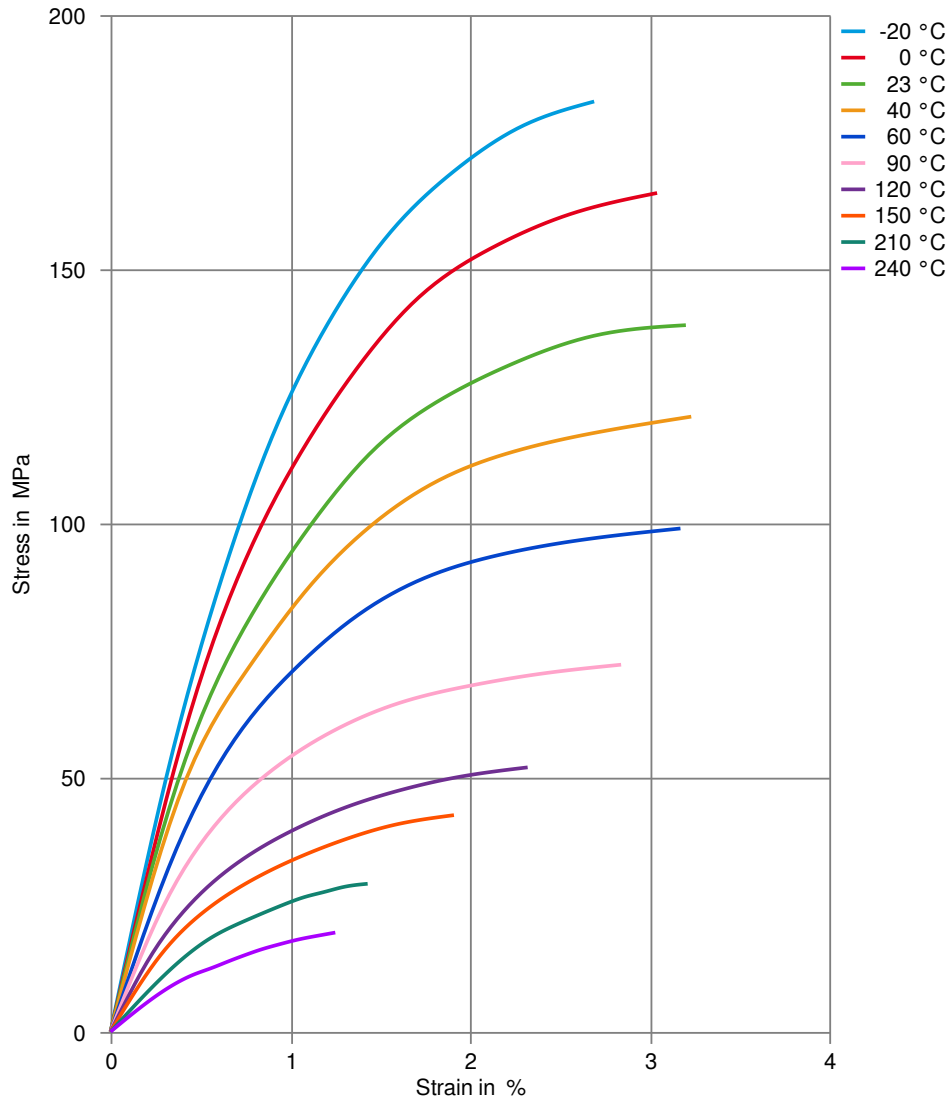
Injection

Drying Temperature	150 °C	
Drying Time, Dehumidified Dryer	3 h	
Processing Moisture Content	0.01 %	
Melt Temperature Optimum	335 °C	Internal
Max. mould temperature	80 - 120 °C	
Back pressure	3 MPa	



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Stress-strain



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Secant modulus-strain

