

ZENITE® 5244L

40% glass/mineral reinforced

Zenite 5244L is a 40% glass/mineral reinforced LCP resin with improved toughness.

Rheological properties

Moulding shrinkage range, parallel	0.1 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.4 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	14000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	131 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.66 %	ISO 527-1/-2
Flexural Modulus	13100 MPa	ISO 178
Flexural Strength	198 MPa	ISO 178
Charpy impact strength, 23°C	27 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	16.6 kJ/m ²	ISO 179/1eA
Izod impact strength, 23°C	28 kJ/m ²	ISO 180/1U

Thermal properties

Melting temperature, 10°C/min	318 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	285 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	6 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	48 E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 class	UL 94
Thickness tested	1.5 mm	UL 94
Burning Behav. at thickness h	V-0 class	UL 94
Thickness tested	0.80 mm	UL 94
UL recognition	yes	UL 94

Other properties

Density	1710 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 %	
Melt Temperature Optimum	340 °C	Internal
Max. mould temperature	80 - 120 °C	
Back pressure	3 MPa	

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