

ZENITE® 5145L R1 (PRELIMINARY)

Typical mechanical properties

Tensile Modulus	16449 MPa	ISO 527-1/-2
Stress at break, 50mm/min	128 MPa	ISO 527-1/-2
Strain at break, 50mm/min	2 %	ISO 527-1/-2
Flexural Modulus	17100 MPa	ISO 178
Flexural Strength	208 MPa	ISO 178
Charpy impact strength, 23°C	17.1 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	15.4 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	318 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	291 °C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	305 °C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	V-0 class	UL 94
Thickness tested	0.40 mm	UL 94

Electrical properties

Volume resistivity	1E13 Ohm.m	IEC 62631-3-1
Surface resistivity	1E15 Ohm	IEC 62631-3-2
Comparative tracking index	PLC 4 PLC	UL 746A
Relative permittivity, printed circuits and boards, 2.5 GHz	4.67	IEC 61189-2-721
Dissipation factor, printed circuits and boards, 2.5 GHz	62 E-4	IEC 61189-2-721

Other properties

Humidity absorption, 2mm	0.03 %	Sim. to ISO 62
Density	1740 kg/m ³	ISO 1183

Injection

Drying Temperature	140 - 160 °C
Drying Time, Dehumidified Dryer	4 - 6 h
Processing Moisture Content	0.01 %
Max. mould temperature	80 - 120 °C
Injection speed	medium-fast

