

ZENITE® 6244L

40% glass fiber and mineral reinforced, lubricated

Zenite 6244L is a lubricated, 40% glass fiber and mineral reinforced liquid crystal polymer resin. It is well suited for use in the automotive, electrical/electronic, telecommunications, and aerospace industries.

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	13100 MPa	ISO 527-1/-2
Stress at break, 5mm/min	112 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.5 %	ISO 527-1/-2
Flexural Modulus	13200 MPa	ISO 178
Flexural Strength	163 MPa	ISO 178
Izod notched impact strength, 23°C	7 kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C	5 kJ/m ²	ISO 180/1A
Izod impact strength, 23°C	20 kJ/m ²	ISO 180/1U
Izod impact strength, -30°C	15 kJ/m ²	ISO 180/1U

Thermal properties

Temp. of deflection under load, 1.8 MPa	269 °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	50 E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	V-0 class	UL 94
Thickness tested	1.50 mm	UL 94

Electrical properties

Relative permittivity, 100Hz	4.4	IEC 62631-2-1
Relative permittivity, 1MHz	3.6	IEC 62631-2-1
Dissipation factor, 100Hz	130 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	230 E-4	IEC 62631-2-1
Volume resistivity	>1E14 Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15 Ohm	IEC 62631-3-2
Electric strength	34 kV/mm	IEC 60243-1

Other properties

Water absorption, 2mm	0.02 %	Sim. to ISO 62
Density	1730 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	40 - 150 °C

