Celanese
The chemistry inside innovation™

ZENITE® 650

Zenite® 650 is designed for high dielectric constant and low dissipation factor

Rheological properties

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

Typical mechanical properties

Tensile Modulus	18000	MPa	ISO 527-1/-2
Stress at break, 50mm/min	143	MPa	ISO 527-1/-2
Strain at break, 50mm/min	1.5	%	ISO 527-1/-2
Flexural Modulus	16000	MPa	ISO 178
Flexural Strength	197	MPa	ISO 178
Charpy impact strength, 23°C	24	kJ/m^2	ISO 179/1eU

Thermal properties

Temp. of deflection under load, 1.8 MPa	278	°C	ISO 75-1/-2

Electrical properties

Volume resistivity	>1E13	Ohm.m	IEC 62631-3-1
Surface resistivity	>1E14	Ohm	IEC 62631-3-2
Electric strength	24	kV/mm	IEC 60243-1
Relative permittivity, printed circuits and boards, 2.5 GHz	12		IEC 61189-2-721
Dissipation factor, printed circuits and boards, 2.5 GHz	80	E-4	IEC 61189-2-721

Other properties

Density	2020	kg/m^3	ISO 1183

Injection

Drying Temperature	150	°C
Drying Time, Dehumidified Dryer	6	h
Max. mould temperature	100	°C