

ZENITE® 450LDS

Rheological properties

Moulding shrinkage, parallel	%	ISO 294-4, 2577
Moulding shrinkage range, parallel	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.7 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	17000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	161 MPa	ISO 527-1/-2
Strain at break, 5mm/min	3.7 %	ISO 527-1/-2
Flexural Modulus	15000 MPa	ISO 178
Flexural Strength	196 MPa	ISO 178
Charpy impact strength, 23°C	43 kJ/m ²	ISO 179/1eU

Thermal properties

Temp. of deflection under load, 1.8 MPa	223 °C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	255 °C	ISO 75-1/-2
Spec. heat capacity solid	1.33 J/(kg K)	Internal

Electrical properties

Relative permittivity, 2GHz	4 E-4	IEC 62631-2-1
Dissipation factor, printed circuits and boards, 2.5 GHz	30 E-4	IEC 61189-2-721

Other properties

Humidity absorption, 2mm	0.012 %	Sim. to ISO 62
Density	1680 kg/m ³	ISO 1183

Injection

Melt Temperature Optimum	330 °C	Internal
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