

COOLPOLY® E2

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Product information

Resin Identification	LCP-CF68	ISO 1043
Part Marking Code	>LCP-CF68<	ISO 11469

Typical mechanical properties

Tensile modulus	21000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	81 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	0.4 %	ISO 527-1/-2
Flexural modulus	41000 MPa	ISO 178
Flexural strength	160 MPa	ISO 178
Charpy impact strength, 23°C	8.5 kJ/m ²	ISO 179/1eU
Poisson's ratio	0.33 ^[C]	

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	268 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	8 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	9 ^[1] E-6/K	ISO 11359-1/-2
Thermal conductivity, flow	16.5 W/(m K)	ISO 22007-2
Thermal conductivity, through plane	3.6 W/(m K)	ISO 22007-2
Specific heat capacity of melt	900 J/(kg K)	ISO 22007-4

[1]: RI data

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 ^[2] class	IEC 60695-11-10
Thickness tested	1.5 ^[3] mm	IEC 60695-11-10
UL recognition	yes	UL 94

[2]: RI? Yellow card.

[3]: RI?

Electrical properties

Volume resistivity	0.001 Ohm.m	IEC 62631-3-1
Surface resistivity	27 ^[PV] Ohm	IEC 62631-3-2

[PV]: Preliminary Value

Physical/Other properties

Density	1800 kg/m ³	ISO 1183
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Characteristics

Processing	Injection Moulding
Special characteristics	Increased electrical conductivity, Flame retardant, High Flow, Lead-free soldering resistant