

Product Texts

CoolPoly E series of thermally conductive plastics transfers heat, a characteristic previously unavailable in injection molding grade polymers. CoolPoly is lightweight, netshape moldable and allows design freedom in applications previously restricted to metals. The E series is electrically conductive and provides inherent EMI/RFI shielding characteristics.

Flammability at thickness h (1 mm) V-0 -

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	11600	MPa	ISO 527
^[C] Stress at break	44	MPa	ISO 527
^[C] Strain at break	0.43	%	ISO 527
^[C] Charpy impact strength, +23°C	3.5	kJ/m ²	ISO 179/1eU

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	280	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	248	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	279	°C	ISO 75-1/-2
^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.0	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	0.0017	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.05	%	Sim. to ISO 62
^[C] Density	1710	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Features

EMI Attenuation/Shielding

Special Characteristics

Increased electrical conductivity, Thermally Conductive

Regional Availability

North America, Europe, Asia Pacific