

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 (1.5 HB mm)

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	7000 / -	MPa	ISO 527
^[C] Stress at break	36 / -	MPa	ISO 527
^[C] Strain at break	0.7 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	5 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	2.2 / -	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	1.9 / -	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	175 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	21 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	52 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	0.02 / -	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	0.1 / *	%	Sim. to ISO 62
^[C] Density	- / 1550	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Features

EMI Attenuation/Shielding

Special Characteristics

Increased electrical conductivity, Thermally Conductive