

CoolPoly® D8104

Thermally Conductive Thermoplastic Elastomer (TPE)

Description

CoolPoly D 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 D series is electrically non-conductive and can be used for its dielectric properties.

Physical Properties	Value	Unit	Test Standard
Density	1480	kg/m ³	ISO 1183
Mechanical Properties	Value	Unit	Test Standard
Tensile Strength	2.52	MPa	ISO 37
Strain @ Break	151	%	ISO 37
Tensile Modulus	31.9	MPa	ISO 37
Thermal Properties	Value	Unit	Test Standard
Thermal Conductivity, In-Plane	1.31	W/mK	ASTM E1461
Thermal Diffusivity, In-Plane	0.00632	cm ² /sec	ASTM E1461
Specific Heat	1.39	J/g°C	ASTM E1461
Flammability	V0 @ 0.5mm		UL 94

