

CoolPoly® D3612

Polyamide 46

Cool Polymers, Inc.

Message:

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.

General Information			
Features	Electrically Insulating		
	Good Moldability		
	Thermally Conductive		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D551
Flow	0.30	%	
Across Flow	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12500	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	0.60	%	ISO 527-2
Flexural Modulus	11500	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Specific Heat	1290	J/kg/°C	ASTM E1461
Thermal Conductivity	6.0	W/m/K	ASTM E1461
Thermal Diffusivity	0.0280	cm ² /s	ASTM E1461
Flammability	Nominal Value		Test Method
Flame Rating (2.00 mm)	V-0		UL 94

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