CoolPoly® D8104

Thermoplastic Elastomer

Celanese Corporation

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

General Information				
Features	Good Moldability			
	Thermally Conductive			
RoHS Compliance	RoHS Compliant			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Density	1.48	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	31.9	МРа	ISO 37	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress (Yield)	2.52	МРа	ISO 37	
Tensile Elongation (Break)	150	%	ISO 37	
Thermal	Nominal Value	Unit	Test Method	
Specific Heat	1390	J/kg/°C	ASTM E1461	
Thermal Conductivity	1.3	W/m/K	ASTM E1461	
Thermal Diffusivity	0.00632	cm²/s		
Flammability	Nominal Value		Test Method	
Flame Rating (0.500 mm)	V-0		UL 94	
Injection	Nominal Value	Unit		
Drying Temperature	65.0	°C		
Drying Time	1.0 to 2.0	hr		
Rear Temperature	180 to 205	°C		
Middle Temperature	190 to 215	°C		
Front Temperature	195 to 225	°C		
Nozzle Temperature	195 to 225	°C		
Processing (Melt) Temp	190 to 225	°C		
Mold Temperature	20.0 to 50.0	°C		
Injection Pressure	2.10 to 6.90	МРа		
Injection Rate	Moderate-Fast			
Holding Pressure	0.700 to 3.50	МРа		
Back Pressure	0.00 to 0.700	MPa		

Screw Speed	50 to 150	rpm
Cushion	0.00 to 5.00	mm

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