

CoolPoly® TKX1010D

Celanese Corporation - Polycarbonate

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General Information

Product 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.

General

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Material Status	Experimental: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	 Thermally Conductive 		
Processing Method	Injection Molding		

ASTM & ISO Properties 1					
Nominal Value	Unit	Test Method			
1.25	g/cm³	ISO 1183			
Nominal Value	Unit	Test Method			
537000	psi	ISO 527-2/1A			
6530	psi	ISO 527-2/1A/50			
7.8	%	ISO 527-2/1A/50			
493000	psi	ISO 178			
11500	psi	ISO 178			
Nominal Value	Unit	Test Method			
3.8	ft·lb/in²	ISO 179/1eA			
97	ft·lb/in²	ISO 179/1eU			
Nominal Value	Unit	Test Method			
266	°F	ISO 75-2/A			
0.311	Btu/lb/°F	ASTM E1461			
		ASTM E1461			
2.8	Btu·in/hr/ft²/°F				
5.6	Btu·in/hr/ft²/°F				
	Nominal Value 1.25 Nominal Value 537000 6530 7.8 493000 11500 Nominal Value 3.8 97 Nominal Value 266 0.311	Nominal Value Unit			

Notes



¹ Typical properties: these are not to be construed as specifications.

² Thruplane

³ Flow