

CoolPoly® E3617

Celanese Corporation - Polyamide 6

Monday, November 4, 2019

	Genera	I Inf	format	tion
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General

Commercial: Active

Availability

Material Status

- Africa & Middle East
- Asia Pacific
- Europe
- Latin America

North America

ASTM 8	k ISO Pro	perties ¹
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ASTIM & ISO Properties				
Physical	Nominal Value	Unit	Test Method	
Density	1.62	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	1.60E+6	psi	ISO 527-2/1A	
Tensile Stress (Break)	7250	psi	ISO 527-2/1A/5	
Tensile Strain (Break)	0.60	%	ISO 527-2/1A/5	
Flexural Modulus (73°F)	1.74E+6	psi	ISO 178	
Flexural Stress (73°F)	11200	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Unnotched Impact Strength (73°F)	2.1	ft·lb/in²	ISO 179/1eU	
Thermal	Nominal Value	Unit	Test Method	
Specific Heat	0.263	Btu/lb/°F	ASTM E1461	
Thermal Conductivity			ASTM E1461	
2	31	Btu·in/hr/ft²/°F		
3	170	Btu·in/hr/ft²/°F		
4	220	Btu·in/hr/ft²/°F		

Processing Information	n
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Nominal Value	Unit
176	°F
2.0 to 4.0	hr
428 to 482	°F
437 to 527	°F
455 to 536	°F
455 to 536	°F
450 to 540	°F
100 to 199	°F
Moderate-Fast	
< 435	psi
	176 2.0 to 4.0 428 to 482 437 to 527 455 to 536 455 to 536 450 to 540 100 to 199 Moderate-Fast

Injection Notes

Zone4 temperature: 235 to 280°C

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Thruplane
- ³ Crossflow
- ⁴ Flow

