

Celanex® MT2008

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Celanex MT2008 Natural is an unreinforced, low molecular weight PBT for melt blown applications that complies with the requirements of CFR 21 177.1660 of the Food and Drug Administration (FDA) and is listed in the Drug Master File (DMF) 10047 (US) / 10033 (EU) and the Device Master File (MAF) 443 (US) / 1078 (EU).MT2008 also complies with the corresponding EU and national registry regulatory requirements. 2401 MT has displayed excellent biocompatibility in tests corresponding to USP 23 class VI. Celanex MT2008 contains no animal derived materials.

General			
Material Status	Commercial: Active		
Availability	North America		
Features	Biocompatible	 Low Molecular Weight 	 No Animal Derived Components
Uses	 Meltblown Nonwovens 		
Agency Ratings	• DMF 10033	• FDA 21 CFR 177.1660	• MAF 443
	• DMF 10047	• MAF 1078	 USP XXIII, Class VI
RoHS Compliance	 Contact Manufacturer 		
Processing Method	Meltblown Nonwovens		

Nominal Value 1.31 1.8 to 2.0	g/cm³	Test Method ISO 1183
		ISO 1102
1.8 to 2.0		130 1103
	%	ISO 294-4
0.080	%	ISO 62
Nominal Value	Unit	Test Method
8700	psi	ISO 527-2/1A/5
5.0	%	ISO 527-2/1A/5
319000	psi	ISO 178
11600	psi	ISO 178
Nominal Value	Unit	Test Method
1.5	ft·lb/in²	ISO 180/1A
Nominal Value	Unit	Test Method
72		ISO 2039-2
Nominal Value	Unit	Test Method
311	°F	ISO 75-2/B
135	°F	ISO 75-2/A
140	°F	ISO 11357-2
437	°F	ISO 11357-3
Nominal Value	Unit	Test Method
> 1.0E+15	ohms	IEC 60093
> 1.0E+15	ohms·cm	IEC 60093
380	V/mil	IEC 60243-1
3.20		IEC 60250
		IEC 60250
	311 135 140 437 Nominal Value > 1.0E+15 > 1.0E+15	



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Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	248 to 266	°F	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	68 to 122	°F	
Rear Temperature	446 to 464	°F	
Middle Temperature	455 to 482	°F	
Front Temperature	455 to 482	°F	
Nozzle Temperature	482 to 500	°F	
Processing (Melt) Temp	455 to 500	°F	
Mold Temperature	149 to 199	°F	
Injection Rate	Moderate-Fast		
Injection Notes			

Die Temperature: 250 to 260°C Feed Temperature: 230 to 240°C

Zone 4 Temperature: 240 to 260°C

Notes

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



² 10°C/min