

Celanex® 2402 MT

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Celanex 2402MT is an unfilled and nucleated, easy flow PBT grade for injection molding processing.

Celanex 2402MT is a special grade developed for medical industry applications and complies with:

- 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))
- the corresponding EU and national registry regulatory requirements
- biocompatibility in tests corresponding to USP 23 Class VI/ISO 10993
- · low residual monomers
- no animal products

Commercial: Active			
Africa & Middle East	• Europe	North America	
 Asia Pacific 	 Latin America 	• Notti America	
 Nucleating Agent 			
Good Flow	No Animal Derived Components Nucleated		
Medical/Healthcare Applica	tions		
• DMF 10033	• ISO 10993		
• DMF 10047	 MAF 1078 	 USP XXIII, Class VI 	
• FDA 21 CFR 177.1660	• MAF 443		
Contact Manufacturer			
Injection Molding			
-	 Africa & Middle East Asia Pacific Nucleating Agent Good Flow Medical/Healthcare Applica DMF 10033 DMF 10047 FDA 21 CFR 177.1660 Contact Manufacturer 	 Africa & Middle East Asia Pacific Nucleating Agent Good Flow No Animal Derived Content of the America Medical/Healthcare Applications DMF 10033 DMF 10047 FDA 21 CFR 177.1660 MAF 443 Contact Manufacturer 	

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.31	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	40	cm ³ /10min	ISO 1133	
Molding Shrinkage - Flow	1.8 to 2.2	%	ISO 294-4	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	392000	psi	ISO 527-2/1A	
Tensile Stress (Yield)	8700	psi	ISO 527-2/1A/50	
Tensile Strain (Yield)	4.0	%	ISO 527-2/1A/50	
Nominal Tensile Strain at Break	15	%	ISO 527-2/1A/50	
Flexural Modulus (73°F)	370000	psi	ISO 178	
Flexural Stress (73°F)	11600	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	2.1	ft·lb/in²		
73°F	2.4	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	62	ft·lb/in²		
73°F	64	ft·lb/in²		

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	320	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	140	°F	ISO 75-2/A
Glass Transition Temperature ²	140	°F	ISO 11357-2
Vicat Softening Temperature	374	°F	ISO 306/B50
Melting Temperature ²	437	°F	ISO 11357-3
CLTE - Flow	6.1E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	НВ		UL 94

Processing Information		
Injection	Nominal Value	Unit
Drying Temperature	248 to 266	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Max Regrind	25	%
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	
Back Pressure	0.00 to 50.0	psi
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