

Celanex® 2000-3

Polybutylene Terephthalate

Celanese Corporation

Message:

Celanex 2000-3 is a general purpose, unreinforced PBT with a good balance of mechanical properties and processability.. Celanex 2000-3 is a high flow material. Celanex 2000-3 contains an internal lubricant for improved mold release.

General Information			
Additive	Lubricant		
Features	Workability, good		
	High liquidity		
	Lubrication		
	General		
	Good demoulding performance		
Uses	General		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.8 - 2.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	78		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield, 23°C	57.2	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/1A/50
Fracture, 23°C	55.8	MPa	ASTM D638
Tensile Strain			ISO 527-2/1A/50
Yield	4.0	%	ISO 527-2/1A/50
Fracture	30	%	ISO 527-2/1A/50
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural Stress (23°C)	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	3.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	155	°C	ISO 75-2/B

1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
--	1.0E+16	ohms·cm	ASTM D257
--	1.0E+17	ohms·cm	IEC 60093
Dielectric Strength			
-- ¹	17	kV/mm	ASTM D149
--	15	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.20		IEC 60250
Comparative Tracking Index	> 600	V	ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Suggested Max Regrind	25	%	
Hopper Temperature	20.0 - 50.0	°C	
Rear Temperature	230 - 240	°C	
Middle Temperature	235 - 250	°C	
Front Temperature	235 - 250	°C	
Nozzle Temperature	250 - 260	°C	
Processing (Melt) Temp	235 - 260	°C	
Mold Temperature	65.0 - 93.0	°C	
Injection Rate	Fast		
Back Pressure	0.00 - 0.345	MPa	
Injection instructions			
Manifold Temperature: 250 to 260°CZone 4 Temperature: 240 to 260°CFeed Temperature: 230 to 240°C			
NOTE			

1. Method A (short time)

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