Celanex® 2000-3

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Lubricant		
Features	• General Purpose • Good Mold Release	• Good Processability • High Flow	• Lubricated
Uses	• General Purpose		
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	70	g/10 min	ISO 1133
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
Tensile Strain (Break)	30	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	377000	psi	ISO 178
Flexural Stress (73°F)	12300	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.9	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	48	ft·lb/in²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	1.5	ft·lb/in²	ISO 180/1A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	78		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	311	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	131	°F	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	380	V/mil	IEC 60243-1
Relative Permittivity (1 MHz)	3.20		IEC 60250
Dissipation Factor (1 MHz)	0.0		IEC 60250

Processing Information

Injection	Nominal Value	Unit
Suggested Max Regrind	25	%
Hopper Temperature	68 to 122	°F
Rear Temperature	446 to 464	°F
Middle Temperature	455 to 482	°F

Celanex® 2000-3

Celanese Corporation - Polybutylene Terephthalate

Injection	Nominal Value	Unit
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	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.