

# Celapex® CL 300GL30

## Celanese Corporation - Polyetheretherketone

Tuesday, November 5, 2019

General Information					
Product Description					
	flow, 30% glass fiber reinforced polyether nents. The typical applications of this pro				
General					
Material Status	Commercial: Active				
Availability	Africa & Middle East	• Europe	North America		
	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Latin America</li> </ul>			
Filler / Reinforcement	<ul> <li>Glass Fiber, 30% Filler by</li> </ul>	Glass Fiber, 30% Filler by Weight			
Features	<ul> <li>Chemical Resistant</li> </ul>	Good Flow			
Processing Method	Injection Molding				

ASTM & ISO Properties <sup>1</sup>					
Physical	Nominal Value	Unit	Test Method		
Density	1.52	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (380°C/5.0 kg)	28	g/10 min	ISO 1133		
Molding Shrinkage			ISO 294-4		
Across Flow	0.80	%			
Flow	0.30	%			
Mechanical	Nominal Value	Unit	Test Method		
Tensile Stress (Break)	25400	psi	ISO 527-2/1A/5		
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5		
Flexural Modulus (73°F)	1.67E+6	psi	ISO 178		
Flexural Stress (73°F)	39900	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (73°F)	3.6	ft·lb/in²	ISO 179/1eA		
Charpy Unnotched Impact Strength (73°F)	24	ft·lb/in²	ISO 179/1eU		
Notched Izod Impact Strength (73°F)	4.3	ft·lb/in²	ISO 180/A		
Unnotched Izod Impact Strength (73°F)	24	ft·lb/in²	ISO 180		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (264 psi, Unannealed)	635	°F	ISO 75-2/A		
Glass Transition Temperature <sup>2</sup>	289	°F	ISO 11357-2		
Melting Temperature <sup>2</sup>	649	°F	ISO 11357-3		
CLTE - Flow			ISO 11359-2		
3	1.1E-5	in/in/°F			
4	1.1E-5	in/in/°F			
Electrical	Nominal Value	Unit	Test Method		
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093		
Electric Strength	580	V/mil	IEC 60243-1		
Relative Permittivity (1 MHz)	3.30		IEC 60250		
Dissipation Factor (1 MHz)	4.0E-3		IEC 60250		
Comparative Tracking Index <sup>5</sup>	150	V	IEC 60112		
. 3					



# Celapex® CL 300GL30

### Celanese Corporation - Polyetheretherketone

Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	284 to 302	°F		
Drying Time	4.0 to 8.0	hr		
Suggested Max Moisture	0.030	%		
Processing (Melt) Temp	707 to 752	°F		
Mold Temperature	329 to 374	°F		
Injection Rate	Moderate-Fast			
Back Pressure	< 290	psi		

#### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>&</sup>lt;sup>2</sup> 10°C/min

<sup>&</sup>lt;sup>3</sup> below

<sup>&</sup>lt;sup>4</sup> above

<sup>&</sup>lt;sup>5</sup> 100 Drop Voltage