

Celanex® 6035GB20

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

	<u> </u>			
General Information				
Product Description				
Celanex 6035GB20 is a 20% gla	ass bead filled PBT.			
General				
Material Status	Commercial: Active			
Availability	North America			
Filler / Reinforcement	Glass Bead, 20% Filler by Weight			
RoHS Compliance	Contact Manufacturer			

ASTM 8	ISO Properties 1		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	479000	psi	ISO 527-2/1A
Tensile Stress (Break)	6670	psi	ISO 527-2/1A/5
Tensile Strain (Break)	8.5	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	479000	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	1.3	ft·lb/in²	
73°F	0.81	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	9.0	ft·lb/in²	
73°F	10	ft·lb/in²	
Notched Izod Impact Strength (73°F)	1.7	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	7.3	ft·lb/in²	ISO 180/1U
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	80		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	334	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	162	°F	ISO 75-2/A
Glass Transition Temperature ²	122	°F	ISO 11357-2
Melting Temperature ²	437	°F	ISO 11357-3
CLTE - Flow	4.3E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	4.3E-5	in/in/°F	ISO 11359-2

Celanex® 6035GB20

Celanese Corporation - Polybutylene Terephthalate

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17		IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength	760	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.50		
Dissipation Factor (1 MHz)	0.017		IEC 60250
Comparative Tracking Index	275	V	IEC 60112

Processing Information			
Nominal Value	Unit		
25	%		
68 to 122	°F		
446 to 464	°F		
455 to 482	°F		
455 to 482	°F		
482 to 500	°F		
455 to 500	°F		
149 to 199	°F		
Fast			
0.00 to 50.0	psi		
	Nominal Value 25 68 to 122 446 to 464 455 to 482 455 to 482 482 to 500 455 to 500 149 to 199		

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