

# Celanex® 2104UV

## Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information					
Product Description					
Celanex 2104UV is an unreinfo Celanex 2104UV is suitable for	· · ·	esigned for outdoor agricultural, industrial and automotive applications.			
General					
Material Status	Commercial: Active				
Availability	• Europe	North America			
Additive	Impact Modifier	UV Stabilizer			
Features	Impact Modified	UV Stabilized			
Uses	<ul><li>Agricultural Applications</li><li>Automotive Applications</li></ul>	<ul><li>Industrial Applications</li><li>Outdoor Applications</li></ul>			
RoHS Compliance	<ul> <li>Contact Manufacturer</li> </ul>				
Processing Method	<ul> <li>Injection Molding</li> </ul>				

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	1.26	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	3.0	g/10 min	ISO 1133		
Molding Shrinkage			ISO 294-4		
Across Flow	2.2 to 3.3	%			
Flow	2.2 to 3.3	%			
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	305000	psi	ISO 527-2/1A		
Tensile Stress (Yield)	6670	psi	ISO 527-2/1A/50		
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50		
Nominal Tensile Strain at Break	250	%	ISO 527-2/1A/50		
Flexural Modulus (73°F)	302000	psi	ISO 178		
Flexural Stress (73°F)	9140	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength			ISO 179/1eA		
-22°F	3.3	ft·lb/in²			
73°F	7.1	ft·lb/in²			
Charpy Unnotched Impact Strength			ISO 179/1eU		
-22°F	No Break				
73°F	No Break				
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (66 psi, Unannealed)	266	°F	ISO 75-2/B		
Melting Temperature <sup>2</sup>	437	°F	ISO 11357-3		
Electrical	Nominal Value	Unit	Test Method		
Surface Resistivity	> 1.0E+15	ohms	IEC 60093		
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093		
Electric Strength	580	V/mil	IEC 60243-1		



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Electrical	Nominal Value Unit	Test Method
Relative Permittivity		IEC 60250
100 Hz	4.00	
1 MHz	3.50	
Dissipation Factor		IEC 60250
100 Hz	7.0E-3	
1 MHz	0.020	

Processing Information				
Injection	Nominal Value Unit			
Drying Temperature	248 to 266 °F			
Drying Time	4.0 hr			
Suggested Max Moisture	0.020 %			
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			

Injection Notes

Die Temperature: 250 to 260°C

Feed Temperature: 230 to 240°C Zone 4 Temperature: 240 to 260°C

#### Notes

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



<sup>&</sup>lt;sup>2</sup> 10°C/min