

Celanex® 2008A

RoHS Compliance

Processing Method

Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

· Contact Manufacturer

• Meltblown Nonwovens

Product Description			
Celanex 2008A is a general processability for use in melt	urpose, very high flow, unreinforced polybu blown applications.	tylene terephthalate with a good ba	alance of mechanical properties and
General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	General Purpose	 Good Processability 	High Flow
Uses	General Purpose	Meltblown Nonwovens	

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	1.32	g/cm³	ISO 1183	
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	175	g/10 min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	1.8 to 2.0	%		
Flow	1.8 to 2.0	%		
Water Absorption (Saturation, 73°F)	0.45	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.17	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	377000	psi	ISO 527-2/1A	
Tensile Stress				
Break	8700	psi	ISO 527-2/1A/5	
Break	6960	psi	ISO 527-2/1A/50	
Tensile Strain				
Break	5.0	%	ISO 527-2/1A/5	
Break	2.0	%	ISO 527-2/1A/50	
Flexural Modulus (73°F)	363000	psi	ISO 178	
Flexural Stress (73°F)	11000	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	1.0	ft·lb/in²		
73°F	1.3	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	21	ft·lb/in²		
73°F	18	ft·lb/in²		
Notched Izod Impact Strength (73°F)	1.5	ft·lb/in²	ISO 180/1A	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (M-Scale)	72		ISO 2039-2	
0, 1, 1, (0, 5, 45,)			100 000	



Shore Hardness (Shore D, 15 sec)

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ISO 868

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	309	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	151	°F	ISO 75-2/A
Glass Transition Temperature ²	140	°F	ISO 11357-2
Melting Temperature ²	437	°F	ISO 11357-3
CLTE - Flow	6.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	5.6E-5	in/in/°F	ISO 11359-2
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	380	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.30		
1 MHz	3.20		
Dissipation Factor (1 MHz)	0.020		IEC 60250
Comparative Tracking Index	350	V	IEC 60112

Processing Information			
Injection	Nominal Value U	Jnit	
Drying Temperature	248 to 266 °I	F	
Drying Time	4.0 h	nr	
Suggested Max Moisture	0.020 %	6	
Suggested Max Regrind	25 %	%	
Hopper Temperature	68 to 122 °I	F	
Rear Temperature	446 to 464 °I	F	
Middle Temperature	455 to 482 °I	F	
Front Temperature	455 to 482 °I	F	
Nozzle Temperature	482 to 500 °I	F	
Processing (Melt) Temp	455 to 500 °I	F	
Mold Temperature	149 to 199 °I	F	
Injection Rate	Moderate-Fast		
Back Pressure	0.00 to 50.0 p	osi	

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.



² 10°C/min