

**RoHS Compliance** 

# Celanex® 3216HR

## Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information					
Product Description					
Celanex 3216HR is a flame retainmechanical properties and proce	rded, hydrolysis resistant, 15% fiberglass essability.	s reinforced polybutylene terephtha	late which has an excellent balance of		
General					
Material Status	Commercial: Active				
Availability	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America		
Filler / Reinforcement	Glass Fiber, 15% Filler by	Glass Fiber, 15% Filler by Weight			
Additive	Flame Retardant				
Features	Flame Retardant	Good Processability	Hvdrolvsis Resistant		

· Contact Manufacturer

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	1.51	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	9.2	g/10 min	ISO 1133		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	870000	psi	ISO 527-2/1A		
Tensile Stress (Break)	11600	psi	ISO 527-2/1A/5		
Tensile Strain (Break)	3.1	%	ISO 527-2/1A/5		
Flexural Modulus (73°F)	769000	psi	ISO 178		
Flexural Stress (73°F)	20300	psi	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (73°F)	3.8	ft·lb/in²	ISO 179/1eA		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (264 psi, Unannealed)	356	°F	ISO 75-2/A		
Melting Temperature <sup>2</sup>	437	°F	ISO 11357-3		
Flammability	Nominal Value	Unit	Test Method		
Flame Rating (0.031 in)	V-0		UL 94		

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 491	°F	
Mold Temperature	149 to 205	°F	
Injection Rate	Moderate-Fast		



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#### **Injection Notes**

Die Temperature: 240 to 255°C Feed Temperature: 230 to 240°C Zone 4 Temperature: 240 to 255°C

#### **Notes**

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

<sup>2</sup> 10°C/min

