

# Celanex® DS30HRLM

## Celanese Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

	General I	nformation		
Product Description				
Celanex DS30HRLM is a non-lubr resistance, mechanical properties	ricated, lasermarkable, 30% fiberglass rand processability.	reinforced Polybutylene Tere	ohthalate wh	nich has excellent hydrolysis
General				
Material Status	Commercial: Active			
Availability	Africa & Middle East	• Europe	North America	
Availability	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Latin America</li> </ul>		North America
Filler / Reinforcement	<ul> <li>Glass Fiber, 30% Filler by</li> </ul>	Weight		
Features	<ul> <li>Good Processability</li> </ul>	<ul> <li>Hydrolysis Resistan</li> </ul>	t	Laser Markable
	ASTM & ISC	O Properties <sup>1</sup>		
Physical		Nominal Value	Unit	Test Method
Density		1.55	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow		0.70 to 0.90	%	
Flow		0.30 to 0.50	%	
Water Absorption (Equilibrium, 73	°F, 50% RH)	0.15	%	ISO 62
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		1.33E+6	psi	ISO 527-2/1A
Tensile Stress (Break)		19600	psi	ISO 527-2/1A/5
Tensile Strain (Break)		2.7	%	ISO 527-2/1A/5
Flexural Modulus (73°F)		1.29E+6	psi	ISO 178
Flexural Stress (73°F)		30500	psi	ISO 178
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (	(73°F)	3.1	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strengt	th			ISO 179/1eU
-22°F		21	ft·lb/in²	
73°F		22	ft·lb/in²	
Notched Izod Impact Strength (73	°F)	3.3	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (	73°F)	17	ft·lb/in²	ISO 180/1U
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 p	osi, Unannealed)	437	°F	ISO 75-2/B
Heat Deflection Temperature (264	psi, Unannealed)	406	°F	ISO 75-2/A
Glass Transition Temperature <sup>2</sup>		140	°F	ISO 11357-2
Vicat Softening Temperature		428	°F	ISO 306/B50
Melting Temperature <sup>2</sup>		437	°F	ISO 11357-3
CLTE - Flow		1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse			in/in/°F	ISO 11359-2
Electrical		Nominal Value		Test Method
Surface Resistivity		> 1.0E+15		IEC 60093
Values Designification		- 4.0F:4F		IEO 00000



Volume Resistivity

Electric Strength

> 1.0E+15 ohms·cm

790 V/mil

IEC 60093

IEC 60243-1

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Electrical	Nominal Value Unit	Test Method
Relative Permittivity		IEC 60250
100 Hz	4.50	
1 MHz	4.10	
Dissipation Factor		IEC 60250
100 Hz	2.2E-3	
1 MHz	0.016	
Comparative Tracking Index	425 V	IEC 60112

Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	250	°F		
Drying Time	4.0	hr		
Suggested Max Regrind	25	%		
Rear Temperature	446 to 464	°F		
Middle Temperature	455 to 482	°F		
Front Temperature	464 to 500	°F		
Nozzle Temperature	482 to 500	°F		
Processing (Melt) Temp	455 to 509	°F		
Mold Temperature	149 to 199	°F		
Injection Rate	Fast			
Back Pressure	0.00 to 50.0	psi		

#### **Notes**



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

<sup>&</sup>lt;sup>2</sup> 10°C/min