Celanex® 733LD

Celanese Corporation - Polybutylene Terephthalate Alloy

Monday, November 4, 2019

General Information

Product Description

Celanex 733LD is a 30% glass-filled PBT alloy that exhibits low warp characteristics. Celanex 733LD is well suited for electrical connectors.

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Low Warpage
Uses	• Connectors
RoHS Compliance	• Contact Manufacturer

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	7.9	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.50 to 0.70	%	
Flow	0.10 to 0.30	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.55E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	20300	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.51E+6	psi	ISO 178
Flexural Stress (73°F)	29000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	3.4	ft·lb/in²	ISO 179/1eA
Notched Izod Impact Strength (73°F)	3.3	ft·lb/in²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	423	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	363	°F	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	460	V/mil	IEC 60243-1
Arc Resistance	93.0	sec	Internal Method
Comparative Tracking Index	200	V	IEC 60112

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	446 to 482	°F
Middle Temperature	455 to 491	°F
Front Temperature	464 to 500	°F

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Injection	Nominal Value	Unit
Nozzle Temperature	482 to 509	°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

[1] Typical properties: these are not to be construed as specifications.