



Zenite® SEA10N

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

General Information

Product Description

ZENITE SEA 10 N is a 30% mineral filled grade. It offers excellent antistatic property, surface appearance, low warpage, and excellent dimensional stability. Application for this grade is compact camera module, and other thin, small electronic parts.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Mineral, 30% Filler by Weight		
Features	• Antistatic • Good Dimensional Stability	• Good Surface Finish • Low Warpage	
Uses	• Camera Applications	• Electrical/Electronic Applications • Thin-walled Parts	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.10	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.89E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	19600	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.89E+6	psi	ISO 178
Flexural Stress (73°F)	22000	psi	ISO 178
Flexural Strain at Break	2.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	464	°F	ISO 75-2/A
Melting Temperature ²	626	°F	ISO 11357-3
CLTE - Flow	5.6E-6	in/in/°F	ISO 11359-2
CLTE - Transverse	3.3E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	9.8E+11	ohms	IEC 60093
Volume Resistivity	2.3E+14	ohms·cm	IEC 60093

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	302	°F
Drying Time	6.0	hr
Suggested Max Moisture	0.010	%
Rear Temperature	590 to 608	°F

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Injection	Nominal Value	Unit
Middle Temperature	608 to 626	°F
Front Temperature	626 to 662	°F
Nozzle Temperature	626 to 644	°F
Processing (Melt) Temp	635 to 653	°F
Mold Temperature	176 to 284	°F
Injection Rate	Moderate-Fast	

Injection Notes

Zone4 temperature: 330 to 350°C

Notes

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

² 10°C/min