Zenite® ZE55205

Liquid Crystal Polymer

Celanese Corporation

Message:

Zenite® ZE55205 is a black reinforced LCP resin with a high dielectric constant.

General Information			
UL YellowCard	E344082-100831306		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.89	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.60	%	ISO 294-4
Flow direction	0.10	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	14300	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	125	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12200	MPa	ISO 178
Flexural Stress (23°C)	190	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	30	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	36	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	29	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	35	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	276	°C	ISO 75-2/A
Electrical	**Nominal Value**		**Test Method**
Relative Permittivity			
1 MHz	4.52		IEC 60250
2.05 GHz	6.07		Internal method
Dissipation Factor			
1 MHz	0.019		IEC 60250
2.05 GHz	4.0E-3		Internal method
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150	°C	
Drying Time	5.0	hr	
Suggested Max Moisture	0.010	%	

Hopper Temperature	20.0 - 30.0	°C
Rear Temperature	320 - 330	°C
Middle Temperature	335 - 345	°C
Front Temperature	335 - 345	°C
Nozzle Temperature	335 - 345	°C
Processing (Melt) Temp	330 - 350	°C
Mold Temperature	80.0 - 120	°C
Injection Pressure	50.0 - 150	MPa
Holding Pressure	50.0 - 150	MPa
Back Pressure	0.00 - 3.00	MPa

Injection instructions

Feed Temperature: 40 to 60°CZone 4 Temperature: 335 to 345°C

Recommended distributors for this material

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