

Zenite® 7755

Liquid Crystal Polymer
Celanese Corporation

Message:

Zenite 7755 is a 55% glass/mineral-reinforced liquid crystal polymer resin for injection molding. It has good impact resistance, excellent temperature resistance, and is suitable for applications in diverse industries.

General Information			
UL YellowCard	E344082-100831282		
Filler / Reinforcement	Glass \mineral, 55% filler by weight		
Features	Impact resistance, good		
	Heat resistance, high		
Uses	Industrial application		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.89	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.10	%	ISO 294-4
Flow direction	0.0	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17600	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	100	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.0	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	14000	MPa	ISO 178
Flexural Stress (23°C)	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	310	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	9.0E-6	cm/cm/°C	ISO 11359-2
Lateral	3.9E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	

Drying Time	3.0	hr
Suggested Max Moisture	0.010	%
Hopper Temperature	20.0 - 30.0	°C
Rear Temperature	355 - 365	°C
Middle Temperature	360 - 370	°C
Front Temperature	360 - 370	°C
Nozzle Temperature	360 - 370	°C
Processing (Melt) Temp	365 - 375	°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°C Zone 4 Temperature: 360 to 370°C

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