Celanese
The chemistry inside innovation™

ZENITE® 7755

55% glass/mineral-reinforced
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.

Rheological properties

Moulding shrinkage range, parallel		%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.1	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	17700	MPa	ISO 527-1/-2
Stress at break, 5mm/min	100	MPa	ISO 527-1/-2
Strain at break, 5mm/min	0.7	%	ISO 527-1/-2
Flexural Modulus	18500	MPa	ISO 178
Flexural Strength	161	MPa	ISO 178
Charpy notched impact strength, 23°C	5	kJ/m²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	350	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	295	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	9	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	39	E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	1.50	mm	UL 94
UL recognition	yes		UL 94

Other properties

Humidity absorption, 2mm	1.1	%	Sim. to ISO 62
Density	1890	kg/m³	ISO 1183

Injection

Drying Temperature	150	°C
Drying Time, Dehumidified Dryer	3	h
Processing Moisture Content	0.01	%
Max. mould temperature	80 - 120	°C
Back pressure	3	MPa

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