

ZENITE® 17311 EFT | LCP | Mineral / Glass Reinforced

Description

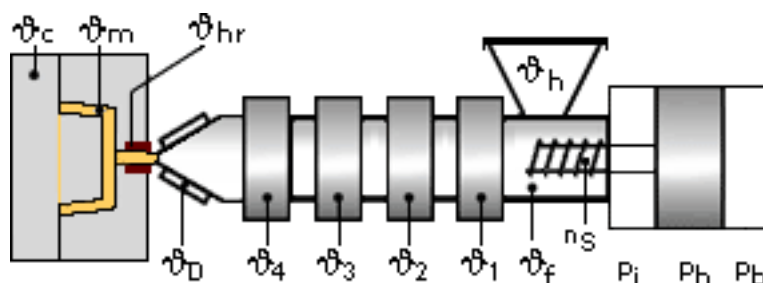
ZENITE® 17311 EFT is a 35% glass and mineral reinforced grade. This grade offers excellent flowability, low warpage, excellent surface appearance, and excellent dimensional stability. Application for this grade is fine pitch connector with thin wall.

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	11000	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	110	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	2	%	ISO 527-2/1A
Flexural modulus (23°C)	11000	MPa	ISO 178
Flexural strength (23°C)	160	MPa	ISO 178
Flexural strain @ break	2.4	%	ISO 178
Charpy notched impact strength @ 23°C	5.0	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	346	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	298	°C	ISO 75-1/-2

Electrical properties	Value	Unit	Test Standard
Relative permittivity at 2.05 GHz	4.18	-	IPC TM-650 2.5.5.13
Dissipation factor at 2.05 GHz	4	E-4	IPC TM-650 2.5.5.13

Typical injection moulding processing conditions



Pre Drying:

Necessary low maximum residual moisture content: 0.01%

Drying time: 3 h

Drying temperature: 150 -- °C

Temperature:

	T _{Mold}	T _{Melt}	T _{Nozzle}	T _{Zone4}	T _{Zone3}	T _{Zone2}	T _{Zone1}	T _{Feed}	T _{Hopper}
min (°C)	80	360	355	355	345	340	330	40	20
max (°C)	120	370	370	370	365	360	350	60	30

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Pressure:

	Inj press	Hold press	Back pressure
min (bar)	500	500	0
max (bar)	1500	1500	30

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Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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