

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10000	MPa	ISO 527
^[C] Stress at break	140	MPa	ISO 527
^[C] Strain at break	2.8	%	ISO 527
^[C] Charpy notched impact strength, +23°C	8	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	60	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	208	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	225	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	220	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	25	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	100	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.5	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4.1	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	22	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	160	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	31	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Humidity absorption	0.15	%	Sim. to ISO 62
^[C] Density	1550	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific

Delivery form

Pellets

Other text information

Injection molding

To avoid hydrolytic degradation during processing, CELANEX resins have to be dried to a moisture level equal to or less than 0.02%.

Drying should be done in a dehumidifying hopper dryer capable of dewpoints <-30°F (-34°C) at 250°F (121°C) for 4 hours.

Rear Temperature 450-470(230-240) deg F (deg C)

Center Temperature 460-480(235-250) deg F (deg C)

Front Temperature 470-500(240-260) deg F (deg C)
Nozzle Temperature 480-500(250-260) deg F (deg C)
Melt Temperature 460-500(235-260) deg F (deg C)
Mold Temperature 150-200(65-93) deg F (deg C)
Back Pressure 0-50 psi
Screw Speed Medium
Injection Speed Fast

Injection speed, injection pressure and holding pressure have to be optimized to the individual article geometry. To avoid material degradation during processing low back pressure and minimum screw speed have to be used. Overheating of the material has to be avoided, in particular for flame retardant grades. Up to 25% clean and dry regrind may be used.