

Product Texts

Vandar 8000 polyester alloy is designed to meet UL94 V-0 requirements at 1/32 inch thickness while retaining excellent impact resistance. The product is characterized by excellent moldability and surface finish. Vandar 8000 is well suited for electrical and electronic applications.

Flammability at thickness h (0.85 V-0 mm)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	2.6	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1700	MPa	ISO 527
^[C] Yield stress	30	MPa	ISO 527
^[C] Yield strain	4.5	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	75	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	15	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] Temp. of deflection under load, 1.80 MPa	52	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	127	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	89	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.6	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	45	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	170	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	24	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.45	%	Sim. to ISO 62
^[C] Humidity absorption	0.2	%	Sim. to ISO 62
^[C] Density	1370	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Flame retardant, High impact or impact modified

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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 470-490(240-255) deg F (deg C)

Nozzle Temperature 480-490(250-255) deg F (deg C)

Melt Temperature 460-490(235-255) deg F (deg C)

Mold Temperature 100-200(40-93) deg F (deg C)

Back Pressure 0-50 psi

Screw Speed Medium

Injection Speed Fast