

**Product Texts**

Celanex 3300-2FC is a general purpose, 30% glass reinforced, polybutylene terephthalate that offers a superior combination of mechanical, electrical, and thermal properties for food contact applications. This grade provides outstanding processability and good chemical resistance. Celanex 3300-2FC is a high flow material that contains an internal lubricant.

Flammability at thickness h (0.71 HB mm)

| Processing/Physical Characteristics        | Value | Unit                   | Test Standard   |
|--|-------|------------------------|-----------------|
| <b>ISO Data</b>                            |       |                        |                 |
| <sup>[C]</sup> Melt volume-flow rate, MVR  | 16    | cm <sup>3</sup> /10min | ISO 1133        |
| Temperature                                | 250   | °C                     | -               |
| Load                                       | 2.16  | kg                     | -               |
| <sup>[C]</sup> Molding shrinkage, parallel | 0.5   | %                      | ISO 294-4, 2577 |
| <sup>[C]</sup> Molding shrinkage, normal   | 0.9   | %                      | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties                                | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                                      |       |                   |               |
| <sup>[C]</sup> Tensile Modulus                       | 9200  | MPa               | ISO 527       |
| <sup>[C]</sup> Stress at break                       | 130   | MPa               | ISO 527       |
| <sup>[C]</sup> Strain at break                       | 2.5   | %                 | ISO 527       |
| <sup>[C]</sup> Charpy impact strength, +23°C         | 46    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy impact strength, -30°C         | 45    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy notched impact strength, +23°C | 8.5   | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <sup>[C]</sup> Charpy notched impact strength, -30°C | 8.5   | kJ/m <sup>2</sup> | ISO 179/1eA   |

[C]: CAMPUS

| Thermal properties   | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>  |       |       |                 |
| <sup>[C]</sup> Melting temperature, 10°C/min               | 225   | °C    | ISO 11357-1/-3  |
| <sup>[C]</sup> Glass transition temperature, 10°C/min      | 60    | °C    | ISO 11357-1/-2  |
| <sup>[C]</sup> Temp. of deflection under load, 1.80 MPa    | 205   | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Temp. of deflection under load, 0.45 MPa    | 225   | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Vicat softening temperature, B              | 220   | °C    | ISO 306         |
| <sup>[C]</sup> Coeff. of linear therm. expansion, parallel | 25    | E-6/K | ISO 11359-1/-2  |
| <sup>[C]</sup> Coeff. of linear therm. expansion, normal   | 100   | E-6/K | ISO 11359-1/-2  |
| <sup>[C]</sup> Burning Behav. at thickness h               | HB    | class | IEC 60695-11-10 |
| Thickness tested   | 0.7   | mm    | -               |
| <sup>[C]</sup> Oxygen index                                | 20    | %     | ISO 4589-1/-2   |

[C]: CAMPUS

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

[C]: CAMPUS

| Other properties                   | Value | Unit | Test Standard  |
|------------------------------------|-------|------|----------------|
| <sup>[C]</sup> Water absorption    | 0.4   | %    | Sim. to ISO 62 |
| <sup>[C]</sup> Humidity absorption | 0.2   | %    | Sim. to ISO 62 |

[C] Density

**1530**kg/m<sup>3</sup>

ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Lubricants

**Chemical Resistance**

General Chemical Resistance

**Certifications**

Food contact, Drinking water contact

**Applications**

General Purpose

**Regional Availability**

North America