# Zytel® HTN42G30EF NC010

PA*-GF30 Celanese

## Product Texts

**Zytel® HTN42G30EF NC010 is a 30% glass reinforced, high performance polyamide resin, biobased, developed for electrical and electronics applications. It is also a PPA resin.**

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Molding shrinkage, parallel | **0.5 / *** | % | ISO 294-4, 2577 |
| [C] Molding shrinkage, normal | **0.9 / *** | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Tensile Modulus | **9600 / 9300** | MPa | ISO 527 |
| [C] Stress at break | **174 / 146** | MPa | ISO 527 |
| [C] Strain at break | **2.8 / 2.5** | % | ISO 527 |
| [C] Charpy impact strength, +23°C | **86 / 66** | kJ/m² | ISO 179/1eU |
| [C] Charpy impact strength, -30°C | **55 / 54** | kJ/m² | ISO 179/1eU |
| [C] Charpy notched impact strength, +23°C | **13 / 10** | kJ/m² | ISO 179/1eA |
| [C] Charpy notched impact strength, -30°C | **10 / 10** | kJ/m² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Glass transition temperature, 10°C/min | **85 / *** | °C | ISO 11357-1/-2 |
| [C] Coeff. of linear therm. expansion, parallel | **19 / *** | E-6/K | ISO 11359-1/-2 |
| [C] Coeff. of linear therm. expansion, normal | **82 / *** | E-6/K | ISO 11359-1/-2 |
| [C] Burning Behav. at thickness h | **HB / *** | class | IEC 60695-11-10 |
| Thickness tested | **0.8 / *** | mm | - |
| [C] Burning rate, FMVSS, Thickness 1 mm | **25** | mm/min | ISO 3795 (FMVSS 302) |

[C]: CAMPUS

| Electrical properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Volume resistivity | **>1E13 / -** | Ohm*m | IEC 62631-3-1 |
| [C] Comparative tracking index | **600 / -** | - | IEC 60112 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| [C] Water absorption | **3.1 / *** | % | Sim. to ISO 62 |
| [C] Humidity absorption | **1.2 / *** | % | Sim. to ISO 62 |
| [C] Density | **1350 / -** | kg/m³ | ISO 1183 |

[C]: CAMPUS

## Characteristics

**Processing**
Injection Molding

**Delivery form**
Pellets

**Additives**
Release agent

**Special Characteristics**
Heat stabilized or stable to heat

**Certifications**
Contains renewable resources

**Applications**
Electrical and Electronical

**Regional Availability**
North America, Europe, Asia Pacific, South and Central America

**Other text information**

**Injection molding**

For molding machine components, use corrosion resistant and wear resistant steel. For details please contact our representative.
Limit the residence time of the resin in the machine. Use proper protective equipment and adequate ventilation.