

**Product Texts**

Zytel® HTNFR42G30NH NC010 is a 30% glass reinforced, biobased, flame retardant high performance polyamide resin developed for improved reflow soldering performance in connector applications. It is also a PPA resin and it uses a non-halogenated flame retardant.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	10600 / -	MPa	ISO 527
<sup>[C]</sup> Stress at break	138 / -	MPa	ISO 527
<sup>[C]</sup> Strain at break	1.9 / -	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	46 / -	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	7 / -	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Glass transition temperature, 10°C/min	80 / *	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	276 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Electric strength	40 / -	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	2.7 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	1 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1450 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Halogen-free

**Delivery form**

Pellets

**Certifications**

Contains renewable resources

**Additives**

Release agent

**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.