

## Product Texts

Zytel® HTN high performance polyamide resins feature high retention of properties upon exposure to elevated temperature, to high moisture, and to harsh chemical environments. Polymer families and grades of Zytel® HTN are tailored to optimize performance as well as processability.

Typical applications with Zytel® HTN include demanding applications in the automotive, electrical and electronics, domestic appliances, and construction industries.

**Zytel® HTN55G55TLW BK117 is a 55% glass reinforced high performance polyamide resin with improved toughness and low warpage, developed for structural applications where good flow is needed in thin sections. It is also a PPA resin.**

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	18700 / -	MPa	ISO 527
<sup>[C]</sup> Stress at break	243 / -	MPa	ISO 527
<sup>[C]</sup> Strain at break	1.8 / -	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	75 / -	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	18 / -	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	236 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Density	1660 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

## Characteristics

### Processing

Injection Molding

### Delivery form

Pellets

### Additives

Release agent

### Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

### Features

Low Warpage

### Chemical Resistance

General Chemical Resistance

### Applications

Automotive, Electrical and Electronical

### Regional Availability

North America, Europe, Asia Pacific, South and Central America

## Other text information

### Injection molding

Lower end of mold temperature range should be used for parts that are ≤ 1 mm.

During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and limit the hold up time and

temperature of the resin in the machine. Purge degraded resin carefully with HDPE.