

**Product Texts**

Zytel® HTNFR520NH BK337 is an unreinforced, flame retardant high performance polyamide resin. It is also a PPA resin and it uses a non-halogenated flame retardant.

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>3700 / 3600</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>* / 47</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>* / 3.5</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>* / 13</b>	%	ISO 527
<sup>[C]</sup> Stress at break	<b>65 / *</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>5.5 / *</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>45 / 60</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>2 / 2.5</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>313 / *</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	<b>95 / *</b>	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>104 / *</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Burning Behav. at thickness h	<b>V-0 / *</b>	class	IEC 60695-11-10
Thickness tested	<b>0.4 / *</b>	mm	-

[C]: CAMPUS

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

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>6.5 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>1.6 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1220 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

Flame retardant, Halogen-free, Heat stabilized or stable to heat

**Regional Availability**

Europe