

Product Texts

Zytel® HTN50G35HSL BK083 is a 35% glass reinforced, heat stabilized, lubricated, hydrolysis resistant high performance polyamide resin. It is also a PPA resin.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	12700 / 11800	MPa	ISO 527
^[C] Stress at break	240 / 210	MPa	ISO 527
^[C] Strain at break	2.5 / 2.6	%	ISO 527
^[C] Charpy impact strength, +23°C	57 / 53	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10 / 9	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.9 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4.6 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	29.7 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	147 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	31.8 / -	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	3.9 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.7 / *	%	Sim. to ISO 62
^[C] Density	1470 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Chemical Resistance

Hydrolytically Stable

Additives

Lubricants, Release agent

Regional Availability

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

Other text information**Injection molding**

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.

When lower mold temperatures are used, the initial warpage and shrinkage may be lower, but the surface appearance and chemical resistance may be reduced, and the dimensional change may be greater when parts are subsequently heated.