

Product Texts

Zytel® HTN42G30EF BK083LM is a 30% glass reinforced, high performance polyamide resin, biobased, developed for electrical and electronics applications and well suited for laser marking. 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 / 9400	MPa	ISO 527
^[C] Stress at break	172 / 147	MPa	ISO 527
^[C] Strain at break	2.7 / 2.5	%	ISO 527
^[C] Charpy impact strength, +23°C	89 / 69	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	58 / 58	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	13 / 11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	10 / 10	kJ/m ²	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	20 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	75 / *	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/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Heat stabilized or stable to heat

Features

Laser Markable

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.