

## DuPont™ Zytel® HTN

high performance polyamide resin

PRELIMINARY DATA

### Zytel® HTN51G25HSL BK083

Zytel® HTN51G25HSL BK083 is a 25% glass reinforced, heat stabilized, lubricated high performance polyamide resin. It is also a PPA resin.

Property	Test Method	Units	Value	
			DAM	50%RH
<b>Identification</b>				
Part Marking Code	ISO 11469		>PA6T/XT-GF25<	
Part Marking Code	SAE J1344		>PPA-GF25<	
<b>Mechanical</b>				
Stress at Break	ISO 527	MPa	170	170
Strain at Break	ISO 527	%	2.2	2.3
Tensile Modulus	ISO 527	MPa	9100	9000
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>		
-40°C (-40°F)			8	7
23°C (23°F)			9	7
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	47	47

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm unless otherwise stated.

Test temperatures are 23°C unless otherwise stated.

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.

**The above data are preliminary and are subject to change as additional data are developed on subsequent lots.**

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## Zytel® HTN51G25HSL BK083

Property	Test Method	Units	Value	
			DAM	50%RH
<b>Thermal</b>				
Deflection Temperature 1.80MPa	ISO 75f	°C	261	
Melting Temperature 10°C/min, First Heat	ISO 11357-1/-3	°C	300	
CLTE, Normal -40 - 23°C (-40 - 73°F)	ISO 11359-1/-2	E-4/C	0.56	
23 - 55°C (73 - 130°F)			0.61	
55 - 160°C (130 - 320°F)			0.66	
CLTE, Parallel -40 - 23°C (-40 - 73°F)	ISO 11359-1/-2	E-4/C	0.24	
23 - 55°C (73 - 130°F)			0.22	
<b>Electrical</b>				
CTI	IEC 60112	V	600	
<b>Other</b>				
Density	ISO 1183	kg/m <sup>3</sup>	1380	
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH, 2.0mm			1.8	
Immersion 24h, 2.0mm			0.6	
Saturation, immersed, 2.0mm			5.0	
<b>Processing</b>				
Melt Temperature Range		°C	320-330	
Melt Temperature Optimum		°C	325	
Mould Temperature Range		°C	140-160	
Mould Temperature Optimum		°C	150	
Drying Time, Dehumidified Dryer		h	6-8	
Drying Temperature		°C	100	
Air Dew Point		°C	<-20	
Processing Moisture Content		%	<0.10	

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