

# DuPont™ Zytel® HTN

high performance polyamide resin

**PRELIMINARY DATA**

## Zytel® HTN51GM60THS NC010

Glass and Mineral Reinforced, Toughened High Performance Polyamide Resin

Zytel® HTN51GM60THS NC010 is a glass and mineral reinforced, toughened, heat stabilized high performance polyamide resin.

Property	Test Method	Units	Value	
			DAM	
<b>Identification</b>				
Resin Identification	ISO 1043-1/-2/-3/-4		PA6T/XT-I(GF+MD)60	
Part Marking Code	ISO 11469		>PA6T/XT-I(GF+MD)60<	
<b>Mechanical</b>				
Stress at Break	ISO 527-1/-2	MPa (kpsi)	184 (27)	
Strain at Break	ISO 527-1/-2	%	1.6	
Tensile Modulus	ISO 527-1/-2	MPa (kpsi)	17500 (2500)	
Flexural Modulus	ISO 178	MPa (kpsi)	16400 (2300)	
Notched Izod Impact Strength	ISO 180/1A	kJ/m <sup>2</sup>		
			-40°C (-40°F)	6
			23°C (73°F)	7
Unnotched Izod Impact Strength	ISO 180/1U	kJ/m <sup>2</sup>		
			-30°C (-22°F)	45
			23°C (73°F)	49

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, and all ASTM properties measured at 3.2mm.  
 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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# Product Information

## Zytel® HTN51GM60THS NC010

Property	Test Method	Units	Value
			DAM
<b>Mechanical</b>			
Notched Charpy Impact Strength -40°C (-40°F) 23°C (73°F)	ISO 179/1eA	kJ/m <sup>2</sup>	5.5
			6.5
Unnotched Charpy Impact Strength -30°C (-30°F) 23°C (73°F)	ISO 179/1eU	kJ/m <sup>2</sup>	50
			52
<b>Thermal</b>			
Deflection Temperature 0.45MPa 1.80MPa	ISO 75-1/-2	°C (°F)	280 (536)
			262 (504)
Melting Temperature	ISO 11357-1/-3	°C (°F)	302 (576)
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1760 (1.76)
<b>Processing</b>			
Melt Temperature Range		°C (°F)	320-330 (610-625)
Mold Temperature Range		°C (°F)	140-160 (284-320)
Drying Time, Dehumidified Dryer		h	6-8
Drying Temperature		°C (°F)	100 (212)
Processing Moisture Content		%	<0.10

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