

DuPont™ Zytel® HTN

high performance polyamide resin

PRELIMINARY DATA

Zytel® HTN51G45HSLR BK420

Zytel® HTN51G45HSLR BK420 is a 45% glass reinforced, heat stabilized, lubricated high performance polyamide resin with improved hydrolysis resistance. It is also a PPA resin.

Property	Test Method	Units	Value	
			DAM	50%RH
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	235 (34)	230 (33)
Strain at Break	ISO 527	%	2.2	2.0
Tensile Modulus	ISO 527	MPa (kpsi)	15000 (2170)	15000 (2170)
Notched Izod Impact Strength	ISO 180/1A	kJ/m ²	11	10
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	12	11
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	75	55
Thermal				
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	264 (507)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	300 (572)	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1570 (1.57)	

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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The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-50102.

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Property	Test Method	Units	Value	
			DAM	50%RH
Processing				
Melt Temperature Range		°C (°F)	320-330 (610-625)	
Mold Temperature Range		°C (°F)	130-160 (265-320)	
Drying Time, Dehumidified Dryer		h	6-8	
Drying Temperature		°C (°F)	100 (210)	
Air Dew Point		°C (°F)	<-20 (<-4)	
Processing Moisture Content		%	<0.10	

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