DuPont™ Zytel® HTN

high performance polyamide resin

Zytel® HTN52G35HSL BK083

Zytel® HTN52G35HSL BK083 is a 35% glass reinforced, heat stabilized, lubricated high performance polyamide resin that can be molded in water heated molds. It is also a PPA resin.

Property	Test Method	Units	Value DAM
Identification			
Part Marking Code	ISO 11469		>PA6T/66-GF35<
Part Marking Code	SAE J1344		>PPA-GF35<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	187 (27)
Strain at Break	ISO 527	%	2.1
Tensile Modulus	ISO 527	MPa (kpsi)	11600 (1680)
Flexural Modulus	ISO 178	MPa (kpsi)	10300 (1490)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	8
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	45
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
1.80MPa			285 (545)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min, First Heat			310 (590)
CLTE, Parallel	ISO 11359-1/-2	E-4/C (E-4/F)	
-40 - 23°C (-40 - 73°F)			0.21 (0.12)
23 - 55°C (73 - 130°F)			0.21 (0.12)
CLTE, Normal	ISO 11359-1/-2	E-4/C (E-4/F)	
-40 - 23°C (-40 - 73°F)			0.61 (0.34)
23 - 55°C (73 - 130°F)			0.67 (0.37)
55 - 160°C (130 - 320°F)			0.80 (0.44)

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.

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Flammability			
Flammability Classification	UL94		
0.75mm			HB
Glow Wire Flammability Index	IEC 60695-2-12	°C	
0.75mm			750
1.5mm			700
3.0mm			850
Glow Wire Ignition Temperature	IEC 60695-2-13	°C	
0.75mm			775
1.5mm			725
3.0mm			775
Temperature Index			
RTI, Electrical	UL 746B	°C	
0.75mm			150
3.0mm			150
RTI, Impact	UL 746B	°C	
0.75mm			125
3.0mm			125
RTI, Strength	UL 746B	°C	
0.75mm			130
3.0mm			150
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1.46 (1460)
Water Absorption	ISO 62, Similar to	%	
Immersion 24h			0.4
Processing			
Melt Temperature Range		°C (°F)	320-330 (610-625)
Melt Temperature Optimum		°C (°F)	325 (620)
Mold Temperature Range		°C (°F)	85-105 (190-220)
Drying Time, Dehumidified Dryer		h	6-8
Drying Temperature		°C (°F)	100 (210)
Processing Moisture Content		%	<0.10

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