#### Product Information

Zytel® HTN high performance polyamide resins feature high retention of properties upon exposure to elevated temperature, to high moisture, and to harsh chemical environments. Polymer families and grades of Zytel® HTN are tailored to optimize performance as well as processability.

Typical applications with Zytel® HTN include demanding applications in the automotive, electrical and electronics, domestic appliances, and construction industries.

Zytel® HTN52G45HSL BK083 is a 45% glass reinforced, heat stabilized, lubricated high performance polyamide resin that can be molded in water heated molds. It is also a PPA resin.

Value	Unit	Test Standard
PA6T/66-GF45	-	ISO 1043
PA6T/66-GF45	-	ISO 11469
>PPA-GF45<	-	SAE J1344
dry / cond	Unit	Test Standard
15500 / -	MPa	ISO 527-1/-2
235 / -	MPa	ISO 527-1/-2
2 / -	%	ISO 527-1/-2
65 / -	kJ/m²	ISO 179/1eU
12 / -	kJ/m²	ISO 179/1eA
Value	Unit	Test Standard
0.26	W/(m K)	-
2050	J/(kg K)	-
Value	Unit	Test Standard
В	-	ISO 3795 (FMVSS 302)
17	mm/min	ISO 3795 (FMVSS 302)
dry / cond	Unit	Test Standard
1560 / -	kg/m³	ISO 1183
1450	kg/m³	-
Value	Unit	Test Standard
yes	-	-
≥100	°C	-
6 - 8	h	-
≤0.1	%	-
325	°C	-
320	°C	-
330	°C	-
100	°C	-
90	°C	-
110	°C	-
	°C	
	PA6T/66-GF45 PA6T/66-GF45 >PPA-GF45< dry / cond 15500 / - 235 / - 2 / - 65 / - 12 / - Value 0.26 2050 Value B 17 dry / cond 1560 / - 1450 Value yes ≥100 6 - 8 ≤0.1 325 320 330 100 90	PA6T/66-GF45 - PA6T/66-GF45 - >PPA-GF45< - dry / cond Unit  15500 / - MPa  235 / - MPa  2 / - %  65 / - kJ/m²  12 / - kJ/m²  Value Unit  0.26 W/(m K)  2050 J/(kg K)  Value Unit  B - 17 mm/min dry / cond Unit  1560 / - kg/m³  1450 kg/m³  Value Unit  yes - ≥100 °C 6 - 8 h ≤0.1 % 325 °C 320 °C 330 °C 100 °C

Characteristics				
Processing	<ul> <li>Injection Molding</li> </ul>			
Special characteristics	Heat stabilized or stable			
	to heat			
Regional Availability	<ul> <li>North America</li> </ul>	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Near East/Africa</li> </ul>	
	<ul> <li>Europe</li> </ul>	<ul> <li>South and Central America</li> </ul>	<ul> <li>Global</li> </ul>	

#### Processing Texts

#### Injection molding

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.

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To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America Asia Pacific Europe/Middle East/Africa

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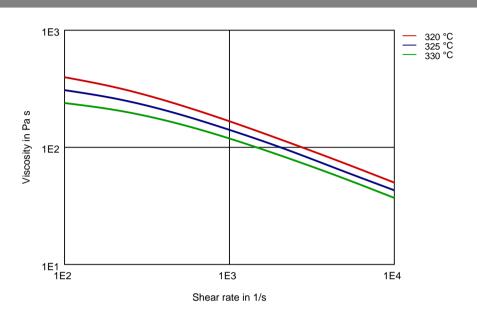
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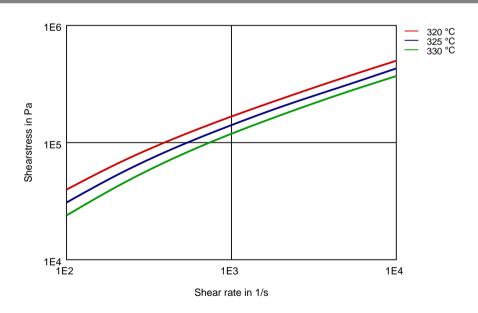
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Diagrams



#### Shearstress-shear rate



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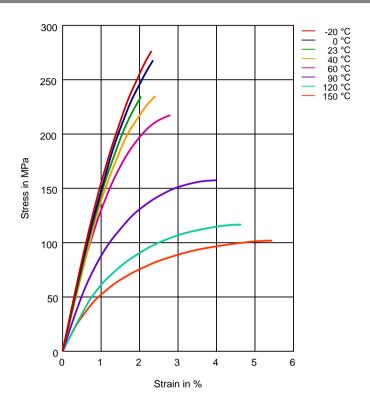
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Stress-strain (dry)



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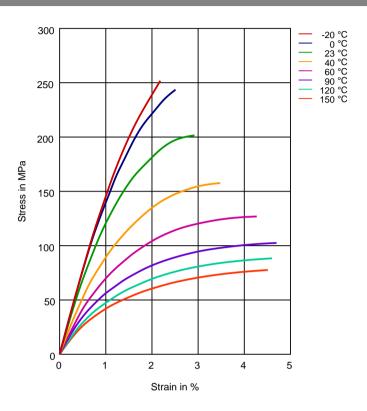
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Stress-strain (cond.)



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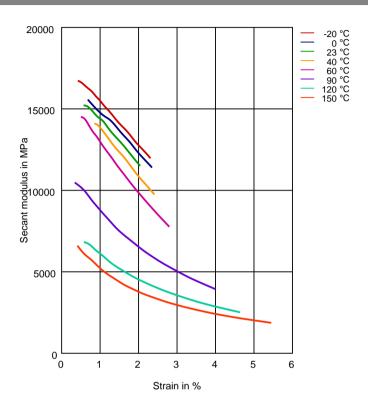
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Secant modulus-strain (dry)



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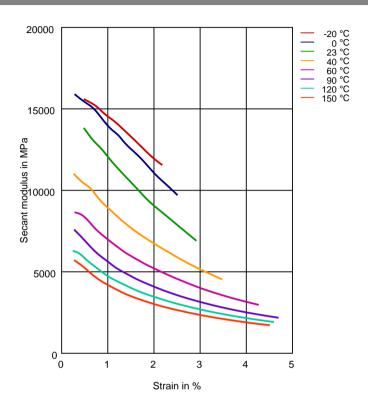
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Secant modulus-strain (cond.)



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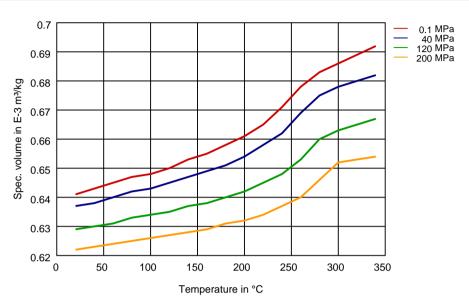
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Specific volume-temperature (pvT)



Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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