

## DuPont Performance Polymers Zytel® HTN FR55G50NHLW BK046 Polyphthalamide (PPA) (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

### Material Notes:

55% Glass Reinforced Flame Retardant Non-Halogenated PPA High Performance Polyamide with Low Warpage and High Stiffness Zytel HTNFR55G50NHLW BK046 is a 50% glass reinforced flame retardant high performance polyamide resin with improved flow and low warpage. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-HTN-FR55G50NHLW-BK046-Polyphthalamide-PPA-Unverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-FR55G50NHLW-BK046-Polyphthalamide-PPA-Unverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in <sup>3</sup>	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	195 MPa	28300 psi	DAM; ISO 527-1/-2
Elongation at Break	1.6 %	1.6 %	DAM; ISO 527-1/-2
Tensile Modulus	17.5 GPa	2540 ksi	DAM; ISO 527-1/-2
Flexural Strength	306 MPa	44400 psi	DAM; ISO 178
Flexural Modulus	16.6 GPa	2410 ksi	DAM; ISO 178
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 µm/m-°C	6.67 µin/in-°F	DAM; ISO 11359-1/-2
	11.0 µm/m-°C	6.11 µin/in-°F	DAM; ISO 11359-1/-2
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	
CTE, linear, Transverse to Flow	14.0 µm/m-°C	7.78 µin/in-°F	DAM; ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
CTE, linear, Transverse to Flow	38.0 µm/m-°C	21.1 µin/in-°F	DAM; ISO 11359-1/-2

Thermal Properties	Metric °C	English °F	Comments
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
Melting Point	298 °C	568 °F	DAM; first heat; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	DAM; ISO 75-1/-2
Flammability, UL94	V-0	V-0	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	DAM; IEC 60695-11-10
	@Thickness 0.400 mm	@Thickness 0.0157 in	

Descriptive Properties	Value	Comments
Part Marking Code	>PA-GF50FR<	ISO 11469
	>PPA-GF50FR<	SAE J1344
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
UL recognition	UL	DAM

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