

DuPont Performance Polymers Zytel® HTN FG52G35HSL BK011 Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 40% Glass Fiber Reinforced

Material Notes:

35% Glass Reinforced PPA High Performance Polyamide Zytel HTNFG52G35HSL BK011 is a 35% glass reinforced lubricated heat stabilized high performance polyamide resin developed for consideration into applications for the food industry. It is also a PPA reinformation provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-FG52G35HSL-BK011-Polyphthalamide-PPA-Unverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	50%RH; ISO 527-1/-2
	180 MPa	26100 psi	DAM; ISO 527-1/-2
Elongation at Break	1.8 %	1.8 %	DAM; ISO 527-1/-2
	2.2 %	2.2 %	50%RH; ISO 527-1/-2
Tensile Modulus	11.4 GPa	1650 ksi	50%RH; ISO 527-1/-2
	11.7 GPa	1700 ksi	DAM; ISO 527-1/-2
Charpy Impact Unnotched	3.80 J/cm ²	18.1 ft-lb/in ²	DAM; ISO 179/1eU
	3.80 J/cm ²	18.1 ft-lb/in ²	50%RH; ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	DAM; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	DAM; ISO 11359-1/-2
Melting Point	310 °C	590 °F	DAM; first heat; ISO 11357-1/-3

Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties	285 °C Metric	545 °F English	DAM; ISO 75-1/-2 Comments
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	25 %	25 %	DAM; ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DAM; IEC 60093

Descriptive Properties	Value	Comments
Additives	Lubricants	
Delivery Form	Pellets	
Part Marking Code	>PA6T/66-GF35<	ISO 11469
	>PPA-GF35<	SAE J1344
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Special Characteristics	Heat stabilised or stable to heat	
UL recognition	UL	DAM

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