

DuPont Performance Polymers Zytel® HTN FE350038 BK083 Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

Material Notes:

Zytel® HTNFE350038 BK083 is a 33% glass reinforced, heat stabilized, lubricated, hydrolysis resistant high performance polyamide resin, developed for improved structural performance. It is also a PPA resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-FE350038-BK083-Polyphthalamide-PPA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	DAM; ISO 1183
Filler Content	33 %	33 %	DAM

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa @Temperature 23.0 °C	29000 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	2.9 % @Temperature 23.0 °C	2.9 % @Temperature 73.4 °F	DAM; ISO 527
Tensile Modulus	10.2 GPa @Temperature 23.0 °C	1480 ksi @Temperature 73.4 °F	DAM; ISO 527
Flexural Strength	280 MPa @Temperature 23.0 °C	40600 psi @Temperature 73.4 °F	DAM; ISO 178
Flexural Modulus	9.40 GPa @Temperature 23.0 °C	1360 ksi @Temperature 73.4 °F	DAM; ISO 178
Fatigue Strength	53.2 MPa @# of Cycles 173861 , Temperature 100 °C	7720 psi @# of Cycles 173861 , Temperature 212 °F	DAM; 5Hz,R=0.1; 4mm; ISO 13003
	66.5 MPa @# of Cycles 30199 , Temperature 100 °C	9650 psi @# of Cycles 30199 , Temperature 212 °F	DAM; 5Hz,R=0.1; 4mm; ISO 13003
	79.8 MPa @# of Cycles 10719 , Temperature 100 °C	11600 psi @# of Cycles 10719 , Temperature 212 °F	DAM; 5Hz,R=0.1; 4mm; ISO 13003
	93.1 MPa	13500 psi	

Mechanical Properties	Metric	English	Comments
	@# of Cycles 3421 , Temperature 100 °C	@# of Cycles 3421 , Temperature 212 °F	DAM; 5Hz,R=0.1; 4mm; ISO 13003
	106.4 MPa	15430 psi	
	@# of Cycles 1266 , Temperature 100 °C	@# of Cycles 1266 , Temperature 212 °F	DAM; 5Hz,R=0.1; 4mm; ISO 13003
	119.7 MPa	17360 psi	
	@# of Cycles 442 , Temperature 100 °C	@# of Cycles 442 , Temperature 212 °F	DAM; 5Hz,R=0.1; 4mm; ISO 13003
Charpy Impact Unnotched	6.50 J/cm ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature -40.0 °C	4.76 ft-lb/in ² @Temperature -40.0 °F	DAM; ISO 179/1eA
	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eA

Processing Properties	Metric	English	Comments
Melt Temperature	325 °C	617 °F	DAM; Optimum
	320 - 330 °C	608 - 626 °F	DAM
Mold Temperature	150 °C	302 °F	DAM; optimum
	140 - 160 °C	284 - 320 °F	DAM
Drying Temperature	100 °C	212 °F	DAM
Dry Time	6.00 - 8.00 hour	6.00 - 8.00 hour	DAM
Moisture Content	<= 0.10 %	<= 0.10 %	DAM

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Filler	Glass Reinforced	DAM
Forms	Pellets	DAM
Generic	Polyphthalamide (PPA)	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA6T/XT-GF33<	ISO 11469; DAM
	>PPA-GF33<	SAE J1344; DAM

Descriptive Properties Polymer Family	Value High performance polyamide	Comments DAM
Polymer Type	Partially Aromatic PA, PPA	DAM
Processing Method	Injection Molding	DAM
Product Category	Glass Reinforced Resins	DAM
	Hydrolysis Resistant Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA6T/XT-GF33	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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