

DuPont Performance Polymers Zytel® HTN FE350064 BK544 Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber Filled

Material Notes:

Carbon Fiber Reinforced Toughened PPA High Performance Polyamide Zytel HTNFE350064 BK544 is a carbon fiber reinforced toughened heat stabilized conductive high performance polyamide resin developed for static dissipative applications. It is also a PPA information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-FE350064-BK544-Polyphthalamide-PPA-Unverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 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	0.0050 cm/cm	0.0050 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	162 MPa	23500 psi	50%RH; ISO 527-1/-2
	168 MPa	24400 psi	DAM; ISO 527-1/-2
Tensile Stress	1.06 MPa	154 psi	DAM; ISO 11403-1 -2
	@Strain 0.0300 %, Temperature 90.0 °C	@Strain 0.0300 %, Temperature 194 °F	
	1.26 MPa	183 psi	DAM; ISO 11403-1 -2
	@Strain 0.0400 %, Temperature 40.0 °C	@Strain 0.0400 %, Temperature 104 °F	
	1.36 MPa	197 psi	DAM; ISO 11403-1 -2
	@Strain 0.0400 %, Temperature 23.0 °C	@Strain 0.0400 %, Temperature 73.4 °F	
	2.49 MPa	361 psi	DAM; ISO 11403-1 -2
	@Strain 0.0400 %, Temperature 0.000 °C	@Strain 0.0400 %, Temperature 32.0 °F	
	2.61 MPa	379 psi	DAM; ISO 11403-1 -2
	@Strain 0.0300 %, Temperature -20.0 °C	@Strain 0.0300 %, Temperature -4.00 °F	
	2.87 MPa	416 psi	DAM; ISO 11403-1 -2
	@Strain 0.0600 %,	@Strain 0.0600 %,	

Mechanical Properties	Temperature 180 °C Metric	Temperature 356 °F English	Comments
	2.88 MPa @Strain 0.0600 %, Temperature 150 °C	418 psi @Strain 0.0600 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	3.38 MPa @Strain 0.0600 %, Temperature 150 °C	490 psi @Strain 0.0600 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	4.02 MPa @Strain 0.0600 %, Temperature 90.0 °C	583 psi @Strain 0.0600 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	5.03 MPa @Strain 0.0500 %, Temperature 23.0 °C	730 psi @Strain 0.0500 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	5.19 MPa @Strain 0.0300 %, Temperature 40.0 °C	753 psi @Strain 0.0300 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	5.61 MPa @Strain 0.0300 %, Temperature 0.000 °C	814 psi @Strain 0.0300 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	5.88 MPa @Strain 0.0300 %, Temperature -20.0 °C	853 psi @Strain 0.0300 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	8.78 MPa @Strain 0.240 %, Temperature 150 °C	1270 psi @Strain 0.240 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	8.89 MPa @Strain 0.230 %, Temperature 180 °C	1290 psi @Strain 0.230 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	9.31 MPa @Strain 0.120 %, Temperature 90.0 °C	1350 psi @Strain 0.120 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	9.85 MPa @Strain 0.150 %, Temperature 40.0 °C	1430 psi @Strain 0.150 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	10.05 MPa @Strain 0.130 %, Temperature 23.0 °C	1458 psi @Strain 0.130 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	10.32 MPa	1497 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.230 %, Temperature 150 °C	@Strain 0.230 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	12.48 MPa	1810 psi	50%RH; ISO 11403-1 -2
	@Strain 0.240 %, Temperature 90.0 °C	@Strain 0.240 %, Temperature 194 °F	
	12.53 MPa	1817 psi	DAM; ISO 11403-1 -2
	@Strain 0.140 %, Temperature 0.000 °C	@Strain 0.140 %, Temperature 32.0 °F	
	12.55 MPa	1820 psi	DAM; ISO 11403-1 -2
	@Strain 0.130 %, Temperature -20.0 °C	@Strain 0.130 %, Temperature -4.00 °F	
	15.1 MPa	2190 psi	50%RH; ISO 11403-1 -2
	@Strain 0.150 %, Temperature 23.0 °C	@Strain 0.150 %, Temperature 73.4 °F	
	15.31 MPa	2221 psi	50%RH; ISO 11403-1 -2
	@Strain 0.130 %, Temperature 40.0 °C	@Strain 0.130 %, Temperature 104 °F	
	16.83 MPa	2441 psi	50%RH; ISO 11403-1 -2
	@Strain 0.120 %, Temperature 0.000 °C	@Strain 0.120 %, Temperature 32.0 °F	
	17.3 MPa	2510 psi	50%RH; ISO 11403-1 -2
	@Strain 0.140 %, Temperature -20.0 °C	@Strain 0.140 %, Temperature -4.00 °F	
	18.64 MPa	2704 psi	DAM; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 23.0 °C	@Strain 0.220 %, Temperature 73.4 °F	
	22.11 MPa	3207 psi	DAM; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 90.0 °C	@Strain 0.220 %, Temperature 194 °F	
	22.45 MPa	3256 psi	DAM; ISO 11403-1 -2
	@Strain 0.230 %, Temperature 0.000 °C	@Strain 0.230 %, Temperature 32.0 °F	
	22.61 MPa	3279 psi	DAM; ISO 11403-1 -2
	@Strain 0.220 %, Temperature -20.0 °C	@Strain 0.220 %, Temperature -4.00 °F	
	23.72 MPa	3440 psi	DAM; ISO 11403-1 -2
	@Strain 0.240 %, Temperature 40.0 °C	@Strain 0.240 %, Temperature 104 °F	

Mechanical Properties	Metric ¹ MPa	English ¹	Comments
	@Strain 0.250 %, Temperature 23.0 °C	@Strain 0.250 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	25.44 MPa	3690 psi	
	@Strain 0.230 %, Temperature 40.0 °C	@Strain 0.230 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	27.75 MPa	4025 psi	
	@Strain 0.220 %, Temperature 0.000 °C	@Strain 0.220 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	28.29 MPa	4103 psi	
	@Strain 0.230 %, Temperature -20.0 °C	@Strain 0.230 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	28.73 MPa	4167 psi	
	@Strain 1.18 %, Temperature 180 °C	@Strain 1.18 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	29.42 MPa	4267 psi	
	@Strain 1.18 %, Temperature 150 °C	@Strain 1.18 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	34.34 MPa	4981 psi	
	@Strain 1.10 %, Temperature 150 °C	@Strain 1.10 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	39.6 MPa	5740 psi	
	@Strain 2.28 %, Temperature 180 °C	@Strain 2.28 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	39.78 MPa	5770 psi	
	@Strain 2.21 %, Temperature 150 °C	@Strain 2.21 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	42.52 MPa	6167 psi	
	@Strain 1.12 %, Temperature 90.0 °C	@Strain 1.12 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	47.22 MPa	6849 psi	
	@Strain 0.480 %, Temperature 23.0 °C	@Strain 0.480 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	47.86 MPa	6942 psi	
	@Strain 2.13 %, Temperature 150 °C	@Strain 2.13 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	50.07 MPa	7262 psi	

Mechanical Properties	Metric @Strain 0.490 %, Temperature 90.0 °C	English @Strain 0.490 %, Temperature 194 °F	DAM; ISO 11403-1 -2 Comments
	54.17 MPa	7857 psi	
	@Strain 0.500 %, Temperature -20.0 °C	@Strain 0.500 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	54.75 MPa	7941 psi	
	@Strain 5.56 %, Temperature 150 °C	@Strain 5.56 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	54.94 MPa	7968 psi	
	@Strain 5.81 %, Temperature 180 °C	@Strain 5.81 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	57.59 MPa	8353 psi	
	@Strain 7.57 %, Temperature 150 °C	@Strain 7.57 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	58.45 MPa	8477 psi	
	@Strain 2.19 %, Temperature 90.0 °C	@Strain 2.19 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	58.53 MPa	8489 psi	
	@Strain 7.97 %, Temperature 180 °C	@Strain 7.97 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	60.53 MPa	8779 psi	
	@Strain 0.590 %, Temperature 40.0 °C	@Strain 0.590 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	62.25 MPa	9029 psi	
	@Strain 0.600 %, Temperature 0.000 °C	@Strain 0.600 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	62.29 MPa	9034 psi	
	@Strain 0.590 %, Temperature 40.0 °C	@Strain 0.590 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	65.4 MPa	9490 psi	
	@Strain 0.550 %, Temperature 0.000 °C	@Strain 0.550 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	65.88 MPa	9555 psi	
	@Strain 0.610 %, Temperature 23.0 °C	@Strain 0.610 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	66.31 MPa	9617 psi	
	@Strain 5.57 %, Temperature 150 °C	@Strain 5.57 %, Temperature 302 °F	DAM; ISO 11403-1 -2

Mechanical Properties	70.02 MPa Metric	10160 psi English	Comments
	@Strain 7.70 %, Temperature 150 °C	@Strain 7.70 %, Temperature 302 °F	DAM, ISO 11403-1 -2
	72.01 MPa @Strain 0.600 %, Temperature -20.0 °C	10440 psi @Strain 0.600 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	77.35 MPa @Strain 5.71 %, Temperature 90.0 °C	11220 psi @Strain 5.71 %, Temperature 194 °F	50%RH; ISO 11403-1 -2

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