

## DuPont Performance Polymers Zytel® HTN 92G35DH2 BK083 Polyphthalamide (PPA) (Unverified Data\*\*)

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

### Material Notes:

35% Glass Reinforced PPA High Performance Polyamide with DuPont Zytel HTN92G35DH2 BK083 is a 35% glass reinforced high performance polyamide resin using DuPont SHIELD Technology with high flow and excellent retention of properties after aging at elevated temperatures. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-HTN-92G35DH2-BK083-Polyphthalamide-PPA-Unverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-92G35DH2-BK083-Polyphthalamide-PPA-Unverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	157 MPa	22800 psi	50%RH; ISO 527-1/-2
	200 MPa	29000 psi	DAM; ISO 527-1/-2
Tensile Stress	1.09 MPa @Strain 0.0400 %, Temperature -20.0 °C	158 psi @Strain 0.0400 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	1.63 MPa @Strain 0.0400 %, Temperature 40.0 °C	236 psi @Strain 0.0400 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	1.93 MPa @Strain 0.0400 %, Temperature 0.000 °C	280 psi @Strain 0.0400 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	3.26 MPa @Strain 0.0500 %, Temperature 150 °C	473 psi @Strain 0.0500 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	3.66 MPa @Strain 0.0500 %, Temperature 180 °C	531 psi @Strain 0.0500 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	3.86 MPa @Strain 0.0500 %,	560 psi @Strain 0.0500 %,	DAM; ISO 11403-1 -2

Mechanical Properties	Temperature 150 °C Metric	Temperature 302 °F English	Comments
	3.89 MPa  @Strain 0.0400 %, Temperature 90.0 °C	564 psi  @Strain 0.0400 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	4.33 MPa  @Strain 0.0400 %, Temperature 90.0 °C	628 psi  @Strain 0.0400 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	4.81 MPa  @Strain 0.0300 %, Temperature 23.0 °C	698 psi  @Strain 0.0300 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	6.15 MPa  @Strain 0.0500 %, Temperature 40.0 °C	892 psi  @Strain 0.0500 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	9.64 MPa  @Strain 0.180 %, Temperature 150 °C	1400 psi  @Strain 0.180 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	10.01 MPa  @Strain 0.150 %, Temperature 40.0 °C	1452 psi  @Strain 0.150 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	10.79 MPa  @Strain 0.150 %, Temperature 90.0 °C	1565 psi  @Strain 0.150 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	11.15 MPa  @Strain 0.210 %, Temperature 180 °C	1617 psi  @Strain 0.210 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	11.8 MPa  @Strain 0.100 %, Temperature 23.0 °C	1710 psi  @Strain 0.100 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	12.04 MPa  @Strain 0.210 %, Temperature 150 °C	1746 psi  @Strain 0.210 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	12.11 MPa  @Strain 0.100 %, Temperature 0.000 °C	1756 psi  @Strain 0.100 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	12.39 MPa  @Strain 0.130 %, Temperature -20.0 °C	1797 psi  @Strain 0.130 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	13.51 MPa	1959 psi	

Mechanical Properties	Metric @Strain 0.100 %, Temperature -20.0 °C	English @Strain 0.100 %, Temperature -4.00 °F	DAM; ISO 11403-1-2 Comments
	13.53 MPa  @Strain 0.130 %, Temperature 0.000 °C	1962 psi  @Strain 0.130 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	13.92 MPa  @Strain 0.180 %, Temperature 90.0 °C	2019 psi  @Strain 0.180 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	14.58 MPa  @Strain 0.130 %, Temperature 23.0 °C	2115 psi  @Strain 0.130 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	17.79 MPa  @Strain 0.250 %, Temperature 40.0 °C	2580 psi  @Strain 0.250 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	18.78 MPa  @Strain 0.160 %, Temperature 40.0 °C	2724 psi  @Strain 0.160 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	23.5 MPa  @Strain 0.210 %, Temperature 23.0 °C	3410 psi  @Strain 0.210 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	23.62 MPa  @Strain 0.220 %, Temperature -20.0 °C	3426 psi  @Strain 0.220 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	23.87 MPa  @Strain 0.380 %, Temperature 90.0 °C	3462 psi  @Strain 0.380 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	24.87 MPa  @Strain 0.230 %, Temperature 0.000 °C	3607 psi  @Strain 0.230 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	25.61 MPa  @Strain 0.570 %, Temperature 150 °C	3714 psi  @Strain 0.570 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	31.2 MPa  @Strain 0.280 %, Temperature 40.0 °C	4530 psi  @Strain 0.280 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	33.89 MPa  @Strain 0.470 %, Temperature 90.0 °C	4915 psi  @Strain 0.470 %, Temperature 194 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric MPa	English	Comments
	@Strain 0.760 %, Temperature 180 °C	@Strain 0.760 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	<b>35.05 MPa</b>	<b>5084 psi</b>	
	@Strain 0.680 %, Temperature 150 °C	@Strain 0.680 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	<b>45.07 MPa</b>	<b>6537 psi</b>	
	@Strain 1.27 %, Temperature 150 °C	@Strain 1.27 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	<b>46.39 MPa</b>	<b>6728 psi</b>	
	@Strain 0.400 %, Temperature 23.0 °C	@Strain 0.400 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	<b>47.54 MPa</b>	<b>6895 psi</b>	
	@Strain 0.400 %, Temperature 0.000 °C	@Strain 0.400 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	<b>48.19 MPa</b>	<b>6989 psi</b>	
	@Strain 0.400 %, Temperature -20.0 °C	@Strain 0.400 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	<b>49.11 MPa</b>	<b>7123 psi</b>	
	@Strain 1.28 %, Temperature 180 °C	@Strain 1.28 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	<b>49.13 MPa</b>	<b>7126 psi</b>	
	@Strain 0.470 %, Temperature 23.0 °C	@Strain 0.470 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	<b>51.05 MPa</b>	<b>7404 psi</b>	
	@Strain 1.00 %, Temperature 90.0 °C	@Strain 1.00 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	<b>51.45 MPa</b>	<b>7462 psi</b>	
	@Strain 1.13 %, Temperature 150 °C	@Strain 1.13 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	<b>53.59 MPa</b>	<b>7773 psi</b>	
	@Strain 0.820 %, Temperature 90.0 °C	@Strain 0.820 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	<b>53.59 MPa</b>	<b>7773 psi</b>	
	@Strain 0.770 %, Temperature 40.0 °C	@Strain 0.770 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	<b>54.31 MPa</b>	<b>7877 psi</b>	

Mechanical Properties	@Strain 0.500 %, Metric Temperature 40.0 °C	@Strain 0.500 %, English Temperature 104 °F	DAM; ISO 11403-1 -2 Comments
	65.88 MPa  @Strain 0.590 %, Temperature -20.0 °C	9555 psi  @Strain 0.590 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	68.68 MPa  @Strain 0.610 %, Temperature 0.000 °C	9961 psi  @Strain 0.610 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	69.19 MPa  @Strain 3.60 %, Temperature 150 °C	10040 psi  @Strain 3.60 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	71.7 MPa  @Strain 5.15 %, Temperature 150 °C	10400 psi  @Strain 5.15 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	78.06 MPa  @Strain 3.71 %, Temperature 180 °C	11320 psi  @Strain 3.71 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	80.7 MPa  @Strain 0.700 %, Temperature 23.0 °C	11700 psi  @Strain 0.700 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	82.68 MPa  @Strain 5.71 %, Temperature 180 °C	11990 psi  @Strain 5.71 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	82.94 MPa  @Strain 0.700 %, Temperature 0.000 °C	12030 psi  @Strain 0.700 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	83.65 MPa  @Strain 0.700 %, Temperature -20.0 °C	12130 psi  @Strain 0.700 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	87.17 MPa  @Strain 3.31 %, Temperature 150 °C	12640 psi  @Strain 3.31 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	89.88 MPa  @Strain 3.35 %, Temperature 90.0 °C	13040 psi  @Strain 3.35 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	92.52 MPa  @Strain 5.25 %, Temperature 150 °C	13420 psi  @Strain 5.25 %, Temperature 302 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	111.22 MPa @Strain 2.38 %, Temperature 90.0 °C	16131 psi @Strain 2.38 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	113.32 MPa @Strain 1.00 %, Temperature 23.0 °C	16436 psi @Strain 1.00 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	115.15 MPa @Strain 1.00 %, Temperature 0.000 °C	16701 psi @Strain 1.00 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2

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