

## DuPont Performance Polymers Zytel® PLUS PLS93G35DH1 BK261 Nylon 6 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

### Material Notes:

Zytel® PLS93G35DH1 BK261 is a 35% glass reinforced PA6 using SHIELD Technology, only from DuPont, it provides exceptional welding resistance & retention over time thanks to excellent Heat Resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-PLUS-PLS93G35DH1-BK261-Nylon-6-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-PLUS-PLS93G35DH1-BK261-Nylon-6-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	DAM; ISO 1183
Filler Content	35 %	35 %	DAM
Water Absorption	2.0 % @Temperature 23.0 °C	2.0 % @Temperature 73.4 °F	Equilibrium 50%RH; DAM; ISO 62, Similar to
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 2.00 mm	0.0020 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 2.00 mm	0.0070 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa @Temperature 23.0 °C	17400 psi @Temperature 73.4 °F	50%RH; ISO 527
	197 MPa @Temperature 23.0 °C	28600 psi @Temperature 73.4 °F	DAM; ISO 527
Tensile Stress	0.510 MPa @Strain 0.000 %, Temperature 200 °C	74.0 psi @Strain 0.000 %, Temperature 392 °F	DAM; ISO 11403-1/-2
	0.830 MPa @Strain 0.000 %, Temperature 180 °C	120 psi @Strain 0.000 %, Temperature 356 °F	DAM; ISO 11403-1/-2
	0.880 MPa @Strain 0.000 %, Temperature 150 °C	128 psi @Strain 0.000 %, Temperature 302 °F	50%RH; ISO 11403-1/-2
	0.910 MPa	132 psi	

Mechanical Properties	Metric	English	DAM; ISO 11403-1/-2 Comments
	@Strain 0.000 %, Temperature 150 °C	@Strain 0.000 %, Temperature 302 °F	
	<b>0.950 MPa</b>	<b>138 psi</b>	
	@Strain 0.000 %, Temperature 120 °C	@Strain 0.000 %, Temperature 248 °F	50%RH; ISO 11403-1/-2
	<b>1.09 MPa</b>	<b>158 psi</b>	
	@Strain 0.000 %, Temperature 120 °C	@Strain 0.000 %, Temperature 248 °F	DAM; ISO 11403-1/-2
	<b>1.09 MPa</b>	<b>158 psi</b>	
	@Strain 0.000 %, Temperature 90.0 °C	@Strain 0.000 %, Temperature 194 °F	50%RH; ISO 11403-1/-2
	<b>1.17 MPa</b>	<b>170 psi</b>	
	@Strain 0.000 %, Temperature 90.0 °C	@Strain 0.000 %, Temperature 194 °F	DAM; ISO 11403-1/-2
	<b>1.19 MPa</b>	<b>173 psi</b>	
	@Strain 0.000 %, Temperature 60.0 °C	@Strain 0.000 %, Temperature 140 °F	50%RH; ISO 11403-1/-2
	<b>1.23 MPa</b>	<b>178 psi</b>	
	@Strain 0.000 %, Temperature 40.0 °C	@Strain 0.000 %, Temperature 104 °F	50%RH; ISO 11403-1/-2
	<b>1.28 MPa</b>	<b>186 psi</b>	
	@Strain 0.000 %, Temperature 23.0 °C	@Strain 0.000 %, Temperature 73.4 °F	50%RH; ISO 11403-1/-2
	<b>1.34 MPa</b>	<b>194 psi</b>	
	@Strain 0.000 %, Temperature 0.000 °C	@Strain 0.000 %, Temperature 32.0 °F	50%RH; ISO 11403-1/-2
	<b>1.38 MPa</b>	<b>200 psi</b>	
	@Strain 0.000 %, Temperature 60.0 °C	@Strain 0.000 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	<b>1.56 MPa</b>	<b>226 psi</b>	
	@Strain 0.000 %, Temperature 0.000 °C	@Strain 0.000 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2
	<b>1.81 MPa</b>	<b>263 psi</b>	
	@Strain 0.000 %, Temperature 40.0 °C	@Strain 0.000 %, Temperature 104 °F	DAM; ISO 11403-1/-2
	<b>1.92 MPa</b>	<b>278 psi</b>	
	@Strain 0.000 %, Temperature -20.0 °C	@Strain 0.000 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2

Mechanical Properties	Metric Pa	English	Comments
	@Strain 0.000 %, Temperature -20.0 °C	@Strain 0.000 %, Temperature -4.00 °F	DAM; ISO 11403-1/-2
	<b>1.98 MPa</b>	<b>287 psi</b>	
	@Strain 0.000 %, Temperature 23.0 °C	@Strain 0.000 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	<b>2.76 MPa</b>	<b>400 psi</b>	
	@Strain 0.0400 %, Temperature -20.0 °C	@Strain 0.0400 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2
	<b>2.90 MPa</b>	<b>421 psi</b>	
	@Strain 0.100 %, Temperature 200 °C	@Strain 0.100 %, Temperature 392 °F	DAM; ISO 11403-1/-2
	<b>2.94 MPa</b>	<b>426 psi</b>	
	@Strain 0.0600 %, Temperature 150 °C	@Strain 0.0600 %, Temperature 302 °F	50%RH; ISO 11403-1/-2
	<b>3.19 MPa</b>	<b>463 psi</b>	
	@Strain 0.0600 %, Temperature 180 °C	@Strain 0.0600 %, Temperature 356 °F	DAM; ISO 11403-1/-2
	<b>3.32 MPa</b>	<b>482 psi</b>	
	@Strain 0.0600 %, Temperature 120 °C	@Strain 0.0600 %, Temperature 248 °F	50%RH; ISO 11403-1/-2
	<b>3.75 MPa</b>	<b>544 psi</b>	
	@Strain 0.0200 %, Temperature -20.0 °C	@Strain 0.0200 %, Temperature -4.00 °F	DAM; ISO 11403-1/-2
	<b>3.90 MPa</b>	<b>566 psi</b>	
	@Strain 0.0700 %, Temperature 150 °C	@Strain 0.0700 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	<b>3.92 MPa</b>	<b>569 psi</b>	
	@Strain 0.0500 %, Temperature 90.0 °C	@Strain 0.0500 %, Temperature 194 °F	50%RH; ISO 11403-1/-2
	<b>4.40 MPa</b>	<b>638 psi</b>	
	@Strain 0.0600 %, Temperature 60.0 °C	@Strain 0.0600 %, Temperature 140 °F	50%RH; ISO 11403-1/-2
	<b>4.42 MPa</b>	<b>641 psi</b>	
	@Strain 0.0700 %, Temperature 120 °C	@Strain 0.0700 %, Temperature 248 °F	DAM; ISO 11403-1/-2
	<b>4.70 MPa</b>	<b>682 psi</b>	
			50%RH; ISO 11403-1/-2

Mechanical Properties	Metric @Strain 0.0600 %, Temperature 40.0 °C	English @Strain 0.0600 %, Temperature 104 °F	Comments
	4.86 MPa	705 psi	
	@Strain 0.0800 %, Temperature 90.0 °C	@Strain 0.0800 %, Temperature 194 °F	DAM; ISO 11403-1/-2
	4.88 MPa	708 psi	
	@Strain 0.190 %, Temperature 200 °C	@Strain 0.190 %, Temperature 392 °F	DAM; ISO 11403-1/-2
	4.95 MPa	718 psi	
	@Strain 0.110 %, Temperature 150 °C	@Strain 0.110 %, Temperature 302 °F	50%RH; ISO 11403-1/-2
	5.23 MPa	759 psi	
	@Strain 0.0500 %, Temperature 23.0 °C	@Strain 0.0500 %, Temperature 73.4 °F	50%RH; ISO 11403-1/-2
	5.52 MPa	801 psi	
	@Strain 0.0700 %, Temperature 60.0 °C	@Strain 0.0700 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	5.54 MPa	804 psi	
	@Strain 0.140 %, Temperature 180 °C	@Strain 0.140 %, Temperature 356 °F	DAM; ISO 11403-1/-2
	5.69 MPa	825 psi	
	@Strain 0.0500 %, Temperature 0.000 °C	@Strain 0.0500 %, Temperature 32.0 °F	50%RH; ISO 11403-1/-2
	5.70 MPa	827 psi	
	@Strain 0.120 %, Temperature 120 °C	@Strain 0.120 %, Temperature 248 °F	50%RH; ISO 11403-1/-2
	5.99 MPa	869 psi	
	@Strain 0.0500 %, Temperature 40.0 °C	@Strain 0.0500 %, Temperature 104 °F	DAM; ISO 11403-1/-2
	6.51 MPa	944 psi	
	@Strain 0.0400 %, Temperature 23.0 °C	@Strain 0.0400 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	6.60 MPa	957 psi	
	@Strain 0.120 %, Temperature 90.0 °C	@Strain 0.120 %, Temperature 194 °F	50%RH; ISO 11403-1/-2
	6.76 MPa	980 psi	
	@Strain 0.0500 %, Temperature 0.000 °C	@Strain 0.0500 %, Temperature 32.0 °F	DAM; ISO 11403-1/-2

Mechanical Properties	6.90 MPa Metric	1000 psi English	Comments 50%RH; ISO 11403-1/-2
	@Strain 0.170 %, Temperature 150 °C	@Strain 0.170 %, Temperature 302 °F	
	<b>6.94 MPa</b>	<b>1010 psi</b>	DAM; ISO 11403-1/-2
	@Strain 0.150 %, Temperature 150 °C	@Strain 0.150 %, Temperature 302 °F	
	<b>7.54 MPa</b>	<b>1090 psi</b>	50%RH; ISO 11403-1/-2
	@Strain 0.0900 %, Temperature -20.0 °C	@Strain 0.0900 %, Temperature -4.00 °F	
	<b>7.63 MPa</b>	<b>1110 psi</b>	50%RH; ISO 11403-1/-2
	@Strain 0.110 %, Temperature 60.0 °C	@Strain 0.110 %, Temperature 140 °F	
	<b>7.69 MPa</b>	<b>1120 psi</b>	DAM; ISO 11403-1/-2
	@Strain 0.200 %, Temperature 180 °C	@Strain 0.200 %, Temperature 356 °F	
	<b>7.75 MPa</b>	<b>1120 psi</b>	DAM; ISO 11403-1/-2
	@Strain 0.150 %, Temperature 120 °C	@Strain 0.150 %, Temperature 248 °F	
	<b>7.91 MPa</b>	<b>1150 psi</b>	50%RH; ISO 11403-1/-2
	@Strain 0.180 %, Temperature 120 °C	@Strain 0.180 %, Temperature 248 °F	
	<b>8.13 MPa</b>	<b>1180 psi</b>	50%RH; ISO 11403-1/-2
	@Strain 0.110 %, Temperature 40.0 °C	@Strain 0.110 %, Temperature 104 °F	
	<b>8.56 MPa</b>	<b>1240 psi</b>	DAM; ISO 11403-1/-2
	@Strain 0.150 %, Temperature 90.0 °C	@Strain 0.150 %, Temperature 194 °F	
	<b>8.71 MPa</b>	<b>1260 psi</b>	50%RH; ISO 11403-1/-2
	@Strain 0.230 %, Temperature 150 °C	@Strain 0.230 %, Temperature 302 °F	
	<b>8.96 MPa</b>	<b>1300 psi</b>	50%RH; ISO 11403-1/-2
	@Strain 0.110 %, Temperature 23.0 °C	@Strain 0.110 %, Temperature 73.4 °F	
	<b>9.16 MPa</b>	<b>1330 psi</b>	50%RH; ISO 11403-1/-2
	@Strain 0.180 %, Temperature 90.0 °C	@Strain 0.180 %, Temperature 194 °F	
	<b>9.23 MPa</b>	<b>1340 psi</b>	DAM; ISO 11403-1/-2
	@Strain 0.440 %,	@Strain 0.440 %,	

<b>Mechanical Properties</b>	<b>Temperature 200 °C Metric</b>	<b>Temperature 392 °F English</b>	<b>Comments</b>
	9.51 MPa	1380 psi	
	@Strain 0.130 %, Temperature 60.0 °C	@Strain 0.130 %, Temperature 140 °F	DAM; ISO 11403-1/-2
	9.64 MPa	1400 psi	
	@Strain 0.220 %, Temperature 150 °C	@Strain 0.220 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	9.77 MPa	1420 psi	
	@Strain 0.0600 %, Temperature -20.0 °C	@Strain 0.0600 %, Temperature -4.00 °F	DAM; ISO 11403-1/-2

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China