

DuPont Performance Polymers Zytel® PLS 95G50DH2 BK261 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

Material Notes:

50% Glass Reinforced Heat Stabilized Polyamide Zytel PLS95G50DH2 BK261 is a high flow 50% glass reinforced PA nylon resin using SHIELD Technology only from DuPont providing exceptional Heat Resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-PLS-95G50DH2-BK261-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	DAM; ISO 1183
Water Absorption	1.3 %	1.3 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	1.30 %	1.30 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	50%RH; ISO 527-1/-2
	247 MPa	35800 psi	DAM; ISO 527-1/-2
Tensile Stress	13.89 MPa	2015 psi	50%RH; ISO 11403-1 -2
	@Strain 0.230 %, Temperature 150 °C	@Strain 0.230 %, Temperature 302 °F	
	23.81 MPa	3453 psi	50%RH; ISO 11403-1 -2
	@Strain 0.290 %, Temperature 90.0 °C	@Strain 0.290 %, Temperature 194 °F	
	25.3 MPa	3670 psi	DAM; ISO 11403-1 -2
	@Strain 0.280 %, Temperature 90.0 °C	@Strain 0.280 %, Temperature 194 °F	
	25.84 MPa	3748 psi	50%RH; ISO 11403-1 -2
	@Strain 0.240 %, Temperature 40.0 °C	@Strain 0.240 %, Temperature 104 °F	
	26.59 MPa	3857 psi	DAM; ISO 11403-1 -2
	@Strain 0.490 %,	@Strain 0.490 %,	

Mechanical Properties	Temperature 180 °C Metric	Temperature 356 °F English	Comments
	30.95 MPa @Strain 0.230 %, Temperature 23.0 °C	4489 psi @Strain 0.230 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	34.0 MPa @Strain 0.580 %, Temperature 150 °C	4930 psi @Strain 0.580 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	40.36 MPa @Strain 1.01 %, Temperature 150 °C	5854 psi @Strain 1.01 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	49.43 MPa @Strain 1.35 %, Temperature 180 °C	7169 psi @Strain 1.35 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	55.12 MPa @Strain 1.89 %, Temperature 150 °C	7994 psi @Strain 1.89 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	56.75 MPa @Strain 1.01 %, Temperature 90.0 °C	8231 psi @Strain 1.01 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	57.07 MPa @Strain 0.610 %, Temperature 40.0 °C	8277 psi @Strain 0.610 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	57.56 MPa @Strain 1.34 %, Temperature 150 °C	8348 psi @Strain 1.34 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	60.9 MPa @Strain 0.830 %, Temperature 90.0 °C	8830 psi @Strain 0.830 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	61.68 MPa @Strain 2.33 %, Temperature 180 °C	8946 psi @Strain 2.33 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	61.83 MPa @Strain 0.520 %, Temperature 23.0 °C	8968 psi @Strain 0.520 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	65.38 MPa @Strain 2.87 %, Temperature 150 °C	9483 psi @Strain 2.87 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	69.9 MPa	10100 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 3.39 %, Temperature 180 °C	@Strain 3.39 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	72.42 MPa	10500 psi	
	@Strain 2.24 %, Temperature 150 °C	@Strain 2.24 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	75.57 MPa	10960 psi	
	@Strain 1.75 %, Temperature 90.0 °C	@Strain 1.75 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	79.73 MPa	11560 psi	
	@Strain 0.530 %, Temperature 40.0 °C	@Strain 0.530 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	83.11 MPa	12050 psi	
	@Strain 3.32 %, Temperature 150 °C	@Strain 3.32 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	83.55 MPa	12120 psi	
	@Strain 7.15 %, Temperature 150 °C	@Strain 7.15 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	83.98 MPa	12180 psi	
	@Strain 6.94 %, Temperature 180 °C	@Strain 6.94 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	86.04 MPa	12480 psi	
	@Strain 1.42 %, Temperature 90.0 °C	@Strain 1.42 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	86.31 MPa	12520 psi	
	@Strain 1.14 %, Temperature 40.0 °C	@Strain 1.14 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	90.04 MPa	13060 psi	
	@Strain 2.64 %, Temperature 90.0 °C	@Strain 2.64 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	96.96 MPa	14060 psi	
	@Strain 0.650 %, Temperature 0.000 °C	@Strain 0.650 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	97.6 MPa	14200 psi	
	@Strain 0.980 %, Temperature 23.0 °C	@Strain 0.980 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	99.98 MPa	14500 psi	
	@Strain 7.22 %, Temperature 150 °C	@Strain 7.22 %, Temperature 302 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 2.18 %, Temperature 90.0 °C	@Strain 2.18 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	110.72 MPa	16059 psi	
	@Strain 6.08 %, Temperature 90.0 °C	@Strain 6.08 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	111.51 MPa	16173 psi	
	@Strain 1.83 %, Temperature 40.0 °C	@Strain 1.83 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	114.67 MPa	16632 psi	
	@Strain 0.750 %, Temperature -20.0 °C	@Strain 0.750 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	117.29 MPa	17012 psi	
	@Strain 0.840 %, Temperature 40.0 °C	@Strain 0.840 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	128.35 MPa	18616 psi	
	@Strain 1.56 %, Temperature 23.0 °C	@Strain 1.56 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	136.48 MPa	19795 psi	
	@Strain 0.990 %, Temperature 0.000 °C	@Strain 0.990 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	140.88 MPa	20433 psi	
	@Strain 5.84 %, Temperature 90.0 °C	@Strain 5.84 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	148.97 MPa	21606 psi	
	@Strain 5.04 %, Temperature 40.0 °C	@Strain 5.04 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	149.18 MPa	21637 psi	
	@Strain 0.990 %, Temperature 23.0 °C	@Strain 0.990 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	151.05 MPa	21908 psi	
	@Strain 1.21 %, Temperature 40.0 °C	@Strain 1.21 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	158.89 MPa	23045 psi	
	@Strain 1.11 %, Temperature -20.0 °C	@Strain 1.11 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	171.57 MPa	24884 psi	
			50%RH; ISO 11403-1 -2

Mechanical Properties	@Strain 1.40 %, Metric Temperature 0.000 °C	@Strain 1.40 %, English Temperature 32.0 °F	Comments
	171.65 MPa	24896 psi	
	@Strain 1.12 %, Temperature -20.0 °C	@Strain 1.12 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	173.12 MPa	25109 psi	
	@Strain 1.14 %, Temperature 0.000 °C	@Strain 1.14 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	180.4 MPa	26160 psi	
	@Strain 1.71 %, Temperature 40.0 °C	@Strain 1.71 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	185.01 MPa	26833 psi	
	@Strain 1.35 %, Temperature 23.0 °C	@Strain 1.35 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	200.73 MPa	29113 psi	
	@Strain 1.89 %, Temperature 0.000 °C	@Strain 1.89 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	208.47 MPa	30236 psi	
	@Strain 1.63 %, Temperature -20.0 °C	@Strain 1.63 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	212.81 MPa	30866 psi	
	@Strain 1.53 %, Temperature 0.000 °C	@Strain 1.53 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	216.06 MPa	31337 psi	
	@Strain 1.81 %, Temperature 23.0 °C	@Strain 1.81 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	239.51 MPa	34738 psi	
	@Strain 2.40 %, Temperature 23.0 °C	@Strain 2.40 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	240.38 MPa	34864 psi	
	@Strain 2.08 %, Temperature -20.0 °C	@Strain 2.08 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	247.32 MPa	35871 psi	
	@Strain 2.00 %, Temperature 0.000 °C	@Strain 2.00 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	251.79 MPa	36519 psi	
	@Strain 1.92 %, Temperature -20.0 °C	@Strain 1.92 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2

Mechanical Properties	275.33 MPa Metric	39933 psi English	Comments 1403-1 -2
	@Strain 2.59 %, Temperature 0.000 °C	@Strain 2.59 %, Temperature 32.0 °F	
	304.62 MPa	44181 psi	DAM; ISO 11403-1 -2
	@Strain 2.85 %, Temperature -20.0 °C	@Strain 2.85 %, Temperature -4.00 °F	

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