

DuPont Performance Polymers Zytel® PLUS PLS95G50DH2 BK261 Nylon (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Zytel® PLS95G50DH2 BK261 is a high flow 50% glass reinforced PA nylon resin using SHIELD Technology, only from DuPont providing exceptional Heat Resistance & High stiffness for automotive under hood applications like charge air cooler caps. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-PLUS-PLS95G50DH2-BK261-Nylon-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	DAM; ISO 1183
Filler Content	50 %	50 %	DAM
Water Absorption	1.3 % @Temperature 23.0 °C	1.3 % @Temperature 73.4 °F	Equilibrium 50%RH; DAM; ISO 62, Similar to
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 2.00 mm	0.0030 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Thickness 2.00 mm	0.0060 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa @Temperature 23.0 °C	25400 psi @Temperature 73.4 °F	50%RH; ISO 527
	247 MPa @Temperature 23.0 °C	35800 psi @Temperature 73.4 °F	DAM; ISO 527
Tensile Stress	0.810 MPa @Strain 0.000 %, Temperature 220 °C	117 psi @Strain 0.000 %, Temperature 428 °F	DAM; ISO 11403-1/-2
	1.04 MPa @Strain 0.000 %, Temperature 200 °C	151 psi @Strain 0.000 %, Temperature 392 °F	DAM; ISO 11403-1/-2
	1.27 MPa @Strain 0.000 %, Temperature 180 °C	184 psi @Strain 0.000 %, Temperature 356 °F	DAM; ISO 11403-1/-2
	1.29 MPa	187 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.000 %, Temperature 150 °C	@Strain 0.000 %, Temperature 302 °F	50%RH; ISO 11403-1/-2
	1.38 MPa	200 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 150 °C	@Strain 0.000 %, Temperature 302 °F	
	1.41 MPa	205 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 120 °C	@Strain 0.000 %, Temperature 248 °F	
	1.48 MPa	215 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 120 °C	@Strain 0.000 %, Temperature 248 °F	
	1.64 MPa	238 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 90.0 °C	@Strain 0.000 %, Temperature 194 °F	
	1.75 MPa	254 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 90.0 °C	@Strain 0.000 %, Temperature 194 °F	
	1.76 MPa	255 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 60.0 °C	@Strain 0.000 %, Temperature 140 °F	
	1.76 MPa	255 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 0.000 °C	@Strain 0.000 %, Temperature 32.0 °F	
	1.83 MPa	265 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 40.0 °C	@Strain 0.000 %, Temperature 104 °F	
	1.93 MPa	280 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 0.000 °C	@Strain 0.000 %, Temperature 32.0 °F	
	2.00 MPa	290 psi	50%RH; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 23.0 °C	@Strain 0.000 %, Temperature 73.4 °F	
	2.17 MPa	315 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 60.0 °C	@Strain 0.000 %, Temperature 140 °F	
	2.37 MPa	344 psi	DAM; ISO 11403-1/-2
	@Strain 0.000 %, Temperature 23.0 °C	@Strain 0.000 %, Temperature 73.4 °F	

Mechanical Properties	Metric Pa	English	Comments
	@Strain 0.000 %, Temperature 40.0 °C	@Strain 0.000 %, Temperature 104 °F	DAM; ISO 11403-1/-2
	2.70 MPa	392 psi	
	@Strain 0.000 %, Temperature -20.0 °C	@Strain 0.000 %, Temperature -4.00 °F	DAM; ISO 11403-1/-2
	2.71 MPa	393 psi	
	@Strain 0.000 %, Temperature -20.0 °C	@Strain 0.000 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2
	3.30 MPa	479 psi	
	@Strain 0.0600 %, Temperature 220 °C	@Strain 0.0600 %, Temperature 428 °F	DAM; ISO 11403-1/-2
	3.88 MPa	563 psi	
	@Strain 0.0500 %, Temperature -20.0 °C	@Strain 0.0500 %, Temperature -4.00 °F	DAM; ISO 11403-1/-2
	3.93 MPa	570 psi	
	@Strain 0.0400 %, Temperature -20.0 °C	@Strain 0.0400 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2
	4.18 MPa	606 psi	
	@Strain 0.0600 %, Temperature 200 °C	@Strain 0.0600 %, Temperature 392 °F	DAM; ISO 11403-1/-2
	4.39 MPa	637 psi	
	@Strain 0.0400 %, Temperature 0.000 °C	@Strain 0.0400 %, Temperature 32.0 °F	50%RH; ISO 11403-1/-2
	4.73 MPa	686 psi	
	@Strain 0.0600 %, Temperature 150 °C	@Strain 0.0600 %, Temperature 302 °F	50%RH; ISO 11403-1/-2
	4.75 MPa	689 psi	
	@Strain 0.0600 %, Temperature 180 °C	@Strain 0.0600 %, Temperature 356 °F	DAM; ISO 11403-1/-2
	5.17 MPa	750 psi	
	@Strain 0.0500 %, Temperature 120 °C	@Strain 0.0500 %, Temperature 248 °F	50%RH; ISO 11403-1/-2
	5.50 MPa	798 psi	
	@Strain 0.0600 %, Temperature 150 °C	@Strain 0.0600 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	5.53 MPa	802 psi	
			DAM; ISO 11403-1/-2

Mechanical Properties	Metric @Strain 0.110 %, Temperature 220 °C	English @Strain 0.110 %, Temperature 428 °F	Comments
	5.66 MPa	821 psi	DAM; ISO 11403-1/-2
	@Strain 0.0600 %, Temperature 120 °C	@Strain 0.0600 %, Temperature 248 °F	
	6.06 MPa	879 psi	50%RH; ISO 11403-1/-2
	@Strain 0.0500 %, Temperature 90.0 °C	@Strain 0.0500 %, Temperature 194 °F	
	6.19 MPa	898 psi	DAM; ISO 11403-1/-2
	@Strain 0.0500 %, Temperature 90.0 °C	@Strain 0.0500 %, Temperature 194 °F	
	6.36 MPa	922 psi	50%RH; ISO 11403-1/-2
	@Strain 0.0400 %, Temperature 60.0 °C	@Strain 0.0400 %, Temperature 140 °F	
	6.81 MPa	988 psi	50%RH; ISO 11403-1/-2
	@Strain 0.0400 %, Temperature 40.0 °C	@Strain 0.0400 %, Temperature 104 °F	
	7.14 MPa	1040 psi	DAM; ISO 11403-1/-2
	@Strain 0.130 %, Temperature 200 °C	@Strain 0.130 %, Temperature 392 °F	
	7.46 MPa	1080 psi	DAM; ISO 11403-1/-2
	@Strain 0.0500 %, Temperature 60.0 °C	@Strain 0.0500 %, Temperature 140 °F	
	7.67 MPa	1110 psi	DAM; ISO 11403-1/-2
	@Strain 0.180 %, Temperature 220 °C	@Strain 0.180 %, Temperature 428 °F	
	7.94 MPa	1150 psi	50%RH; ISO 11403-1/-2
	@Strain 0.110 %, Temperature 150 °C	@Strain 0.110 %, Temperature 302 °F	
	8.13 MPa	1180 psi	50%RH; ISO 11403-1/-2
	@Strain 0.0400 %, Temperature 23.0 °C	@Strain 0.0400 %, Temperature 73.4 °F	
	8.27 MPa	1200 psi	DAM; ISO 11403-1/-2
	@Strain 0.120 %, Temperature 180 °C	@Strain 0.120 %, Temperature 356 °F	
	8.29 MPa	1200 psi	DAM; ISO 11403-1/-2
	@Strain 0.0400 %, Temperature 40.0 °C	@Strain 0.0400 %, Temperature 104 °F	

Mechanical Properties	8.38 MPa Metric	1220 psi English	Comments DAM; ISO 11403-1/-2
	@Strain 0.0400 %, Temperature 23.0 °C	@Strain 0.0400 %, Temperature 73.4 °F	
	8.68 MPa	1260 psi	DAM; ISO 11403-1/-2
	@Strain 0.0500 %, Temperature 0.000 °C	@Strain 0.0500 %, Temperature 32.0 °F	
	8.85 MPa	1280 psi	50%RH; ISO 11403-1/-2
	@Strain 0.110 %, Temperature 120 °C	@Strain 0.110 %, Temperature 248 °F	
	9.66 MPa	1400 psi	DAM; ISO 11403-1/-2
	@Strain 0.130 %, Temperature 150 °C	@Strain 0.130 %, Temperature 302 °F	
	9.75 MPa	1410 psi	DAM; ISO 11403-1/-2
	@Strain 0.120 %, Temperature 120 °C	@Strain 0.120 %, Temperature 248 °F	
	9.79 MPa	1420 psi	DAM; ISO 11403-1/-2
	@Strain 0.240 %, Temperature 220 °C	@Strain 0.240 %, Temperature 428 °F	
	10.02 MPa	1453 psi	DAM; ISO 11403-1/-2
	@Strain 0.190 %, Temperature 200 °C	@Strain 0.190 %, Temperature 392 °F	
	10.15 MPa	1472 psi	50%RH; ISO 11403-1/-2
	@Strain 0.100 %, Temperature 90.0 °C	@Strain 0.100 %, Temperature 194 °F	
	10.86 MPa	1575 psi	DAM; ISO 11403-1/-2
	@Strain 0.110 %, Temperature 90.0 °C	@Strain 0.110 %, Temperature 194 °F	
	10.88 MPa	1578 psi	50%RH; ISO 11403-1/-2
	@Strain 0.0800 %, Temperature 0.000 °C	@Strain 0.0800 %, Temperature 32.0 °F	
	11.02 MPa	1598 psi	50%RH; ISO 11403-1/-2
	@Strain 0.100 %, Temperature 60.0 °C	@Strain 0.100 %, Temperature 140 °F	
	11.02 MPa	1598 psi	50%RH; ISO 11403-1/-2
	@Strain 0.180 %, Temperature 150 °C	@Strain 0.180 %, Temperature 302 °F	
	11.11 MPa	1611 psi	DAM; ISO 11403-1/-2
	@Strain 0.100 %, Temperature -20.0 °C	@Strain 0.100 %, Temperature -4.00 °F	

Mechanical Properties	Metric	English	Comments
	11.34 MPa	1648 psi	
	@Strain 0.0800 %, Temperature -20.0 °C	@Strain 0.0800 %, Temperature -4.00 °F	50%RH; ISO 11403-1/-2
	11.57 MPa	1678 psi	
	@Strain 0.180 %, Temperature 180 °C	@Strain 0.180 %, Temperature 356 °F	DAM; ISO 11403-1/-2
	11.89 MPa	1725 psi	
	@Strain 0.100 %, Temperature 40.0 °C	@Strain 0.100 %, Temperature 104 °F	50%RH; ISO 11403-1/-2

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