

DuPont Performance Polymers Zytel® PLUS PLS95G40DH1T BK261 Nylon (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Zytel® PLS95G40DH1T is a 40% GR impact modified PA, made with SHIELD technology, its superior heat & oil resistance combined with the "stone impact resistance" makes it ideal choice for use in severe environments exposed to heat and oil. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-PLUS-PLS95G40DH1T-BK261-Nylon-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	DAM; ISO 1183
Filler Content	40 %	40 %	DAM
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	DAM; 60x60x2mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	Normal; DAM; 60x60x2mm; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa @Temperature 23.0 °C	25400 psi @Temperature 73.4 °F	DAM; ISO 527
Tensile Stress	8.48 MPa @Strain 0.100 %, Temperature 150 °C	1230 psi @Strain 0.100 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	9.37 MPa @Strain 0.100 %, Temperature 100 °C	1360 psi @Strain 0.100 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	13.38 MPa @Strain 0.100 %, Temperature 23.0 °C	1941 psi @Strain 0.100 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	13.65 MPa @Strain 0.200 %, Temperature 150 °C	1980 psi @Strain 0.200 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	13.68 MPa @Strain 0.100 %, Temperature -40.0 °C	1984 psi @Strain 0.100 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	15.46 MPa	2242 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	17.41 MPa	2525 psi	DAM; ISO 11403-1/-2
	@Strain 0.300 %, Temperature 150 °C	@Strain 0.300 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	20.02 MPa	2904 psi	DAM; ISO 11403-1/-2
	@Strain 0.400 %, Temperature 150 °C	@Strain 0.400 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	20.36 MPa	2953 psi	DAM; ISO 11403-1/-2
	@Strain 0.300 %, Temperature 100 °C	@Strain 0.300 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	23.84 MPa	3458 psi	DAM; ISO 11403-1/-2
	@Strain 0.400 %, Temperature 100 °C	@Strain 0.400 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	23.91 MPa	3468 psi	DAM; ISO 11403-1/-2
	@Strain 0.500 %, Temperature 150 °C	@Strain 0.500 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	25.48 MPa	3696 psi	DAM; ISO 11403-1/-2
	@Strain 0.200 %, Temperature 23.0 °C	@Strain 0.200 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	26.55 MPa	3851 psi	DAM; ISO 11403-1/-2
	@Strain 0.200 %, Temperature -40.0 °C	@Strain 0.200 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	26.56 MPa	3852 psi	DAM; ISO 11403-1/-2
	@Strain 0.600 %, Temperature 150 °C	@Strain 0.600 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	29.0 MPa	4210 psi	DAM; ISO 11403-1/-2
	@Strain 0.700 %, Temperature 150 °C	@Strain 0.700 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	29.22 MPa	4238 psi	DAM; ISO 11403-1/-2
	@Strain 0.500 %, Temperature 100 °C	@Strain 0.500 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	31.14 MPa	4516 psi	DAM; ISO 11403-1/-2
	@Strain 0.800 %, Temperature 150 °C	@Strain 0.800 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	32.91 MPa	4773 psi	DAM; ISO 11403-1/-2
	@Strain 0.600 %, Temperature 100 °C	@Strain 0.600 %, Temperature 212 °F	DAM; ISO 11403-1/-2

Mechanical Properties	Metric MPa	English	Comments
	@Strain 0.900 %, Temperature 150 °C	@Strain 0.900 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	34.86 MPa	5056 psi	
	@Strain 1.00 %, Temperature 150 °C	@Strain 1.00 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	36.34 MPa	5271 psi	
	@Strain 0.700 %, Temperature 100 °C	@Strain 0.700 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	36.53 MPa	5298 psi	
	@Strain 1.10 %, Temperature 150 °C	@Strain 1.10 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	36.78 MPa	5334 psi	
	@Strain 0.300 %, Temperature 23.0 °C	@Strain 0.300 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	37.79 MPa	5481 psi	
	@Strain 1.20 %, Temperature 150 °C	@Strain 1.20 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	38.03 MPa	5516 psi	
	@Strain 0.300 %, Temperature -40.0 °C	@Strain 0.300 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	38.78 MPa	5625 psi	
	@Strain 0.800 %, Temperature 100 °C	@Strain 0.800 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	39.4 MPa	5710 psi	
	@Strain 1.30 %, Temperature 150 °C	@Strain 1.30 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	40.83 MPa	5922 psi	
	@Strain 1.40 %, Temperature 150 °C	@Strain 1.40 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	41.92 MPa	6080 psi	
	@Strain 0.900 %, Temperature 100 °C	@Strain 0.900 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	42.1 MPa	6110 psi	
	@Strain 1.50 %, Temperature 150 °C	@Strain 1.50 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	43.27 MPa	6276 psi	
			DAM; ISO 11403-1/-2

Mechanical Properties	@Strain 1.60 %, Metric Temperature 150 °C	@Strain 1.60 %, English Temperature 302 °F	Comments
	44.37 MPa	6435 psi	
	@Strain 1.70 %, Temperature 150 °C	@Strain 1.70 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	44.59 MPa	6467 psi	
	@Strain 1.00 %, Temperature 100 °C	@Strain 1.00 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	45.43 MPa	6589 psi	
	@Strain 1.80 %, Temperature 150 °C	@Strain 1.80 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	45.46 MPa	6593 psi	
	@Strain 0.400 %, Temperature 23.0 °C	@Strain 0.400 %, Temperature 73.4 °F	DAM; ISO 11403-1/-2
	46.29 MPa	6714 psi	
	@Strain 1.90 %, Temperature 150 °C	@Strain 1.90 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	47.03 MPa	6821 psi	
	@Strain 1.10 %, Temperature 100 °C	@Strain 1.10 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	47.21 MPa	6847 psi	
	@Strain 2.00 %, Temperature 150 °C	@Strain 2.00 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	48.15 MPa	6984 psi	
	@Strain 2.10 %, Temperature 150 °C	@Strain 2.10 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	48.47 MPa	7030 psi	
	@Strain 0.400 %, Temperature -40.0 °C	@Strain 0.400 %, Temperature -40.0 °F	DAM; ISO 11403-1/-2
	49.01 MPa	7108 psi	
	@Strain 2.20 %, Temperature 150 °C	@Strain 2.20 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	49.06 MPa	7116 psi	
	@Strain 1.20 %, Temperature 100 °C	@Strain 1.20 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	49.83 MPa	7227 psi	
	@Strain 2.30 %, Temperature 150 °C	@Strain 2.30 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	50.63 MPa	7343 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 2.40 %, Temperature 150 °C	@Strain 2.40 %, Temperature 302 °F	1403-1/-2
	50.99 MPa	7395 psi	DAM; ISO 11403-1/-2
	@Strain 1.30 %, Temperature 100 °C	@Strain 1.30 %, Temperature 212 °F	
	51.39 MPa	7454 psi	DAM; ISO 11403-1/-2
	@Strain 2.50 %, Temperature 150 °C	@Strain 2.50 %, Temperature 302 °F	
	52.13 MPa	7561 psi	DAM; ISO 11403-1/-2
	@Strain 2.60 %, Temperature 150 °C	@Strain 2.60 %, Temperature 302 °F	
	52.83 MPa	7662 psi	DAM; ISO 11403-1/-2
	@Strain 2.70 %, Temperature 150 °C	@Strain 2.70 %, Temperature 302 °F	
	52.97 MPa	7683 psi	DAM; ISO 11403-1/-2
	@Strain 1.40 %, Temperature 100 °C	@Strain 1.40 %, Temperature 212 °F	
	53.45 MPa	7752 psi	DAM; ISO 11403-1/-2
	@Strain 2.80 %, Temperature 150 °C	@Strain 2.80 %, Temperature 302 °F	
	54.08 MPa	7844 psi	DAM; ISO 11403-1/-2
	@Strain 2.90 %, Temperature 150 °C	@Strain 2.90 %, Temperature 302 °F	
	54.71 MPa	7935 psi	DAM; ISO 11403-1/-2
	@Strain 3.00 %, Temperature 150 °C	@Strain 3.00 %, Temperature 302 °F	
	54.89 MPa	7961 psi	DAM; ISO 11403-1/-2
	@Strain 1.50 %, Temperature 100 °C	@Strain 1.50 %, Temperature 212 °F	
	55.36 MPa	8029 psi	DAM; ISO 11403-1/-2
	@Strain 3.10 %, Temperature 150 °C	@Strain 3.10 %, Temperature 302 °F	
	55.95 MPa	8115 psi	DAM; ISO 11403-1/-2
	@Strain 3.20 %, Temperature 150 °C	@Strain 3.20 %, Temperature 302 °F	
	56.43 MPa	8184 psi	DAM; ISO 11403-1/-2
	@Strain 3.30 %, Temperature 150 °C	@Strain 3.30 %, Temperature 302 °F	

Mechanical Properties	Metric MPa	English	Comments
	@Strain 1.60 %, Temperature 100 °C	@Strain 1.60 %, Temperature 212 °F	DAM; ISO 11403-1/-2
	57.07 MPa	8277 psi	
	@Strain 3.40 %, Temperature 150 °C	@Strain 3.40 %, Temperature 302 °F	DAM; ISO 11403-1/-2
	57.6 MPa	8350 psi	
	@Strain 3.50 %, Temperature 150 °C	@Strain 3.50 %, Temperature 302 °F	DAM; ISO 11403-1/-2

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