

DuPont Performance Polymers Zytel® 70G35HSL NC010 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

35% Glass Reinforced Heat Stabilized Polyamide 66 Zytel 70G35HSL NC010 is a 35% glass fiber reinforced heat stabilized polyamide 66 resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70G35HSL-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	
	1.41 g/cc	0.0509 lb/in ³	DAM; ISO 1183
Water Absorption	5.5 %	5.5 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	1.70 %	1.70 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	69000 cP	69000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 305 °C	@Shear Rate 5000 1/s, Temperature 581 °F	
	86000 cP	86000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 295 °C	@Shear Rate 5000 1/s, Temperature 563 °F	
	137000 cP	137000 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 275 °C	@Shear Rate 5000 1/s, Temperature 527 °F	
	196000 cP	196000 cP	ISO 11403-1 -2
@Shear Rate 500 1/s, Temperature 305 °C	@Shear Rate 500 1/s, Temperature 581 °F		
248000 cP	248000 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 295 °C	@Shear Rate 500 1/s, Temperature 563 °F		
Viscosity Test	404000 cP	404000 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 275 °C	@Shear Rate 500 1/s, Temperature 527 °F	
Viscosity Test	145 cm ³ /g	145 cm ³ /g	DAM; ISO 307 1157 1628

Linear Mold Shrinkage, Flow Physical Properties	0.0030 cm/cm Metric	0.0030 in/in English	DAM; ISO 294-4 2577 Comments
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	89	89	50%RH; ISO 2039-2
	105	105	DAM; ISO 2039-2
Hardness, Rockwell R	117	117	50%RH; ISO 2039-2
	125	125	DAM; ISO 2039-2
Tensile Strength at Break	145 MPa	21000 psi	50%RH; ISO 527-1/-2
	210 MPa	30500 psi	DAM; ISO 527-1/-2
Tensile Stress	7.61 MPa @Strain 0.150 %, Temperature 90.0 °C	1100 psi @Strain 0.150 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	10.92 MPa @Strain 0.250 %, Temperature 150 °C	1584 psi @Strain 0.250 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	11.43 MPa @Strain 0.280 %, Temperature 150 °C	1658 psi @Strain 0.280 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	15.04 MPa @Strain 0.270 %, Temperature 90.0 °C	2181 psi @Strain 0.270 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	19.29 MPa @Strain 0.300 %, Temperature 23.0 °C	2798 psi @Strain 0.300 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	20.06 MPa @Strain 0.330 %, Temperature 40.0 °C	2909 psi @Strain 0.330 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	39.28 MPa @Strain 1.31 %, Temperature 150 °C	5697 psi @Strain 1.31 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	47.25 MPa @Strain 1.20 %, Temperature 90.0 °C	6853 psi @Strain 1.20 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	48.84 MPa	7084 psi	

Mechanical Properties	Metric	English	DAM: ISO 11403-1 -2 Comments
	@Strain 1.48 %, Temperature 150 °C	@Strain 1.48 %, Temperature 302 °F	
	51.17 MPa	7422 psi	50%RH; ISO 11403-1 -2
	@Strain 2.07 %, Temperature 150 °C	@Strain 2.07 %, Temperature 302 °F	
	53.63 MPa	7778 psi	50%RH; ISO 11403-1 -2
	@Strain 0.490 %, Temperature -20.0 °C	@Strain 0.490 %, Temperature -4.00 °F	
	55.7 MPa	8080 psi	50%RH; ISO 11403-1 -2
	@Strain 0.610 %, Temperature 0.000 °C	@Strain 0.610 %, Temperature 32.0 °F	
	57.58 MPa	8351 psi	DAM; ISO 11403-1 -2
	@Strain 0.590 %, Temperature 40.0 °C	@Strain 0.590 %, Temperature 104 °F	
	59.43 MPa	8620 psi	50%RH; ISO 11403-1 -2
	@Strain 2.86 %, Temperature 150 °C	@Strain 2.86 %, Temperature 302 °F	
	64.21 MPa	9313 psi	DAM; ISO 11403-1 -2
	@Strain 1.48 %, Temperature 90.0 °C	@Strain 1.48 %, Temperature 194 °F	
	64.53 MPa	9359 psi	DAM; ISO 11403-1 -2
	@Strain 2.39 %, Temperature 150 °C	@Strain 2.39 %, Temperature 302 °F	
	65.31 MPa	9472 psi	50%RH; ISO 11403-1 -2
	@Strain 1.97 %, Temperature 90.0 °C	@Strain 1.97 %, Temperature 194 °F	
	65.53 MPa	9504 psi	50%RH; ISO 11403-1 -2
	@Strain 1.32 %, Temperature 40.0 °C	@Strain 1.32 %, Temperature 104 °F	
	67.63 MPa	9809 psi	DAM; ISO 11403-1 -2
	@Strain 0.640 %, Temperature -20.0 °C	@Strain 0.640 %, Temperature -4.00 °F	
	69.45 MPa	10070 psi	DAM; ISO 11403-1 -2
	@Strain 0.670 %, Temperature 0.000 °C	@Strain 0.670 %, Temperature 32.0 °F	
	69.61 MPa	10100 psi	50%RH; ISO 11403-1 -2
	@Strain 1.25 %, Temperature 23.0 °C	@Strain 1.25 %, Temperature 73.4 °F	

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 3.32 %, Temperature 150 °C	@Strain 3.32 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	77.54 MPa	11250 psi	
	@Strain 2.78 %, Temperature 90.0 °C	@Strain 2.78 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	80.8 MPa	11700 psi	
	@Strain 0.822 %, Temperature 23.0 °C	@Strain 0.822 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	85.96 MPa	12470 psi	
	@Strain 2.33 %, Temperature 90.0 °C	@Strain 2.33 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	86.61 MPa	12560 psi	
	@Strain 2.02 %, Temperature 40.0 °C	@Strain 2.02 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	89.5 MPa	13000 psi	
	@Strain 6.72 %, Temperature 150 °C	@Strain 6.72 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	95.98 MPa	13920 psi	
	@Strain 1.99 %, Temperature 23.0 °C	@Strain 1.99 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	101.06 MPa	14658 psi	
	@Strain 3.14 %, Temperature 90.0 °C	@Strain 3.14 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	101.42 MPa	14710 psi	
	@Strain 2.71 %, Temperature 40.0 °C	@Strain 2.71 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	109.93 MPa	15944 psi	
	@Strain 1.40 %, Temperature 0.000 °C	@Strain 1.40 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	114.76 MPa	16645 psi	
	@Strain 2.74 %, Temperature 23.0 °C	@Strain 2.74 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	115.13 MPa	16698 psi	
	@Strain 1.31 %, Temperature 40.0 °C	@Strain 1.31 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	118.45 MPa	17180 psi	

Mechanical Properties	@Strain 1.19 %, Metric Temperature 0.000 °C	@Strain 1.19 %, English Temperature 32.0 °F	DAM; ISO 11403-1 -2 Comments
	134.55 MPa	19515 psi	
	@Strain 1.91 %, Temperature 0.000 °C	@Strain 1.91 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	136.97 MPa	19866 psi	
	@Strain 1.44 %, Temperature -20.0 °C	@Strain 1.44 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	138.77 MPa	20127 psi	
	@Strain 1.72 %, Temperature 40.0 °C	@Strain 1.72 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	146.75 MPa	21284 psi	
	@Strain 1.63 %, Temperature 23.0 °C	@Strain 1.63 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	154.33 MPa	22384 psi	
	@Strain 2.44 %, Temperature 0.000 °C	@Strain 2.44 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	157.07 MPa	22781 psi	
	@Strain 1.70 %, Temperature 0.000 °C	@Strain 1.70 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	160.1 MPa	23220 psi	
	@Strain 2.23 %, Temperature 40.0 °C	@Strain 2.23 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	167.61 MPa	24310 psi	
	@Strain 1.93 %, Temperature -20.0 °C	@Strain 1.93 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	173.95 MPa	25229 psi	
	@Strain 2.08 %, Temperature 23.0 °C	@Strain 2.08 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	174.6 MPa	25320 psi	
	@Strain 1.84 %, Temperature -20.0 °C	@Strain 1.84 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	183.67 MPa	26639 psi	
	@Strain 2.11 %, Temperature 0.000 °C	@Strain 2.11 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	190.98 MPa	27699 psi	
	@Strain 2.43 %, Temperature -20.0 °C	@Strain 2.43 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2

Mechanical Properties	197.12 MPa Metric	28590 psi English	Comments DMM, ISO 11403-1-2
	@Strain 2.61 %, Temperature 23.0 °C	@Strain 2.61 %, Temperature 73.4 °F	

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