

## DuPont Performance Polymers Zytel® 70G35EF NC010 Nylon 66 + Nylon 6 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/Nylon 6 Blend, Glass Fiber Filled

### Material Notes:

35% Glass Reinforced Polyamide 66 Developed for Electrical and Electronics Applications Zytel 70G35EF NC010 is a 35% glass reinforced polyamide 66 developed for electrical and electronics applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-70G35EF-NC010-Nylon-66-Nylon-6-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70G35EF-NC010-Nylon-66-Nylon-6-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	
	1.40 g/cc	0.0506 lb/in <sup>3</sup>	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	43638 cP	43638 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 305 °C	@Shear Rate 5000 1/s, Temperature 581 °F	
	52680 cP	52680 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 295 °C	@Shear Rate 5000 1/s, Temperature 563 °F	
	64549 cP	64549 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 285 °C	@Shear Rate 5000 1/s, Temperature 545 °F	
	124520 cP	124520 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 305 °C	@Shear Rate 500 1/s, Temperature 581 °F	
	156800 cP	156800 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 295 °C	@Shear Rate 500 1/s, Temperature 563 °F	
	198700 cP	198700 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 285 °C	@Shear Rate 500 1/s, Temperature 545 °F	
Viscosity Test	145 cm <sup>3</sup> /g	145 cm <sup>3</sup> /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	0.0070 cm/cm	0.0070 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	50%RH; ISO 527-1/-2
	200 MPa	29000 psi	DAM; ISO 527-1/-2
Tensile Stress	7.61 MPa	1100 psi	50%RH; ISO 11403-1 -2
	@Strain 0.150 %, Temperature 90.0 °C	@Strain 0.150 %, Temperature 194 °F	
	10.92 MPa	1584 psi	DAM; ISO 11403-1 -2
	@Strain 0.250 %, Temperature 150 °C	@Strain 0.250 %, Temperature 302 °F	
	11.43 MPa	1658 psi	50%RH; ISO 11403-1 -2
	@Strain 0.280 %, Temperature 150 °C	@Strain 0.280 %, Temperature 302 °F	
	15.04 MPa	2181 psi	DAM; ISO 11403-1 -2
	@Strain 0.270 %, Temperature 90.0 °C	@Strain 0.270 %, Temperature 194 °F	
	19.29 MPa	2798 psi	50%RH; ISO 11403-1 -2
	@Strain 0.300 %, Temperature 23.0 °C	@Strain 0.300 %, Temperature 73.4 °F	
	20.06 MPa	2909 psi	50%RH; ISO 11403-1 -2
	@Strain 0.330 %, Temperature 40.0 °C	@Strain 0.330 %, Temperature 104 °F	
	39.28 MPa	5697 psi	50%RH; ISO 11403-1 -2
	@Strain 1.31 %, Temperature 150 °C	@Strain 1.31 %, Temperature 302 °F	
	47.25 MPa	6853 psi	50%RH; ISO 11403-1 -2
	@Strain 1.20 %, Temperature 90.0 °C	@Strain 1.20 %, Temperature 194 °F	
	48.84 MPa	7084 psi	DAM; ISO 11403-1 -2
	@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	

Mechanical Properties	Metric	English	Comments
	@Strain 0.490 %, Temperature -20.0 °C	@Strain 0.490 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	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	
	75.35 MPa	10930 psi	DAM; ISO 11403-1 -2
	@Strain 3.32 %, Temperature 150 °C	@Strain 3.32 %, Temperature 302 °F	
	77.54 MPa	11250 psi	50%RH; ISO 11403-1 -2
	@Strain 2.78 %, Temperature 90.0 °C	@Strain 2.78 %, Temperature 194 °F	

Mechanical Properties	Metric Pa	English psi	Comments
	@Strain 0.822 %, Temperature 23.0 °C	@Strain 0.822 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	<b>85.96 MPa</b>	<b>12470 psi</b>	
	@Strain 2.33 %, Temperature 90.0 °C	@Strain 2.33 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	<b>86.61 MPa</b>	<b>12560 psi</b>	
	@Strain 2.02 %, Temperature 40.0 °C	@Strain 2.02 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	<b>89.5 MPa</b>	<b>13000 psi</b>	
	@Strain 6.72 %, Temperature 150 °C	@Strain 6.72 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	<b>95.98 MPa</b>	<b>13920 psi</b>	
	@Strain 1.99 %, Temperature 23.0 °C	@Strain 1.99 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	<b>101.06 MPa</b>	<b>14658 psi</b>	
	@Strain 3.14 %, Temperature 90.0 °C	@Strain 3.14 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	<b>101.42 MPa</b>	<b>14710 psi</b>	
	@Strain 2.71 %, Temperature 40.0 °C	@Strain 2.71 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	<b>109.93 MPa</b>	<b>15944 psi</b>	
	@Strain 1.40 %, Temperature 0.000 °C	@Strain 1.40 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	<b>114.76 MPa</b>	<b>16645 psi</b>	
	@Strain 2.74 %, Temperature 23.0 °C	@Strain 2.74 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	<b>115.13 MPa</b>	<b>16698 psi</b>	
	@Strain 1.31 %, Temperature 40.0 °C	@Strain 1.31 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	<b>118.45 MPa</b>	<b>17180 psi</b>	
	@Strain 1.19 %, Temperature 0.000 °C	@Strain 1.19 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	<b>134.55 MPa</b>	<b>19515 psi</b>	
	@Strain 1.91 %, Temperature 0.000 °C	@Strain 1.91 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	<b>136.97 MPa</b>	<b>19866 psi</b>	
			50%RH; ISO 11403-1 -2

Mechanical Properties	@Strain 1.44 %, Metric Temperature -20.0 °C	@Strain 1.44 %, English Temperature -4.00 °F	Comments
	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
	197.12 MPa	28590 psi	
	@Strain 2.61 %, Temperature 23.0 °C	@Strain 2.61 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	203.2 MPa	29470 psi	
	@Strain 2.28 %, Temperature -20.0 °C	@Strain 2.28 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2

Mechanical Properties	237.16 MPa Metric	34397 psi English	Comments
	@Strain 2.92 %, Temperature -20.0 °C	@Strain 2.92 %, Temperature -4.00 °F	MPa, ISO 11403-1 -2

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