

# DuPont Performance Polymers Zytel® 70G35HSLX BK357 Nylon 66 (Unverified Data\*\*)

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

## DuPont Performance Polymers

### 产品说明

35% Glass Reinforced Heat Stabilized Polyamide 66 Zytel 70G35HSLX BK357 is a 35% glass fiber reinforced heat stabilized black polyamide 66 for injection molding. Information provided by DuPont Performance Polymers

物理性能	额定值 (公制)	额定值 (英制)	测试方法
密度	1.24 g/cc	0.0448 lb/in <sup>3</sup>	
	1.41 g/cc	0.0509 lb/in <sup>3</sup>	DAM; ISO 1183
吸水率	5.5 % @ Thickness 2.00 mm	5.5 % @ Thickness 0.0787 in	DAM; Sim. to ISO 62
	1.70 % @ Thickness 2.00 mm	1.70 % @ Thickness 0.0787 in	DAM; Sim. to ISO 62
粘度	58900 cP @ Shear Rate 5000 1/s, Temperature 305 °C	58900 cP @ Shear Rate 5000 1/s, Temperature 581 °F	ISO 11403-1 -2
	70480 cP @ Shear Rate 5000 1/s, Temperature 295 °C	70480 cP @ Shear Rate 5000 1/s, Temperature 563 °F	ISO 11403-1 -2
	85520 cP @ Shear Rate 5000 1/s, Temperature 285 °C	85520 cP @ Shear Rate 5000 1/s, Temperature 545 °F	ISO 11403-1 -2
	179600 cP @ Shear Rate 500 1/s, Temperature 305 °C	179600 cP @ Shear Rate 500 1/s, Temperature 581 °F	ISO 11403-1 -2
	226700 cP @ Shear Rate 500 1/s, Temperature 295 °C	226700 cP @ Shear Rate 500 1/s, Temperature 563 °F	ISO 11403-1 -2
	287300 cP @ Shear Rate 500 1/s, Temperature 285 °C	287300 cP @ Shear Rate 500 1/s, Temperature 545 °F	ISO 11403-1 -2
	287300 cP @ Shear Rate 500 1/s, Temperature 285 °C	287300 cP @ Shear Rate 500 1/s, Temperature 545 °F	ISO 11403-1 -2
粘度测试	145 cm <sup>3</sup> /g	145 cm <sup>3</sup> /g	DAM; ISO 307 1157 1628
线性成型收缩率, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
线性成型收缩率, 横向	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4 2577
机械性能	额定值 (公制)	额定值 (英制)	测试方法
抗张强度(断裂)	140 MPa	20300 psi	50%RH; ISO 527-1/-2
	210 MPa	30500 psi	DAM; ISO 527-1/-2
抗张强度	16.01 MPa @ Strain 0.320 %, Temperature 150 °C	2322 psi @ Strain 0.320 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	18.0 MPa @ Strain 0.440 %, Temperature 150 °C	2610 psi @ Strain 0.440 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	26.14 MPa @ Strain 0.500 %, Temperature 90.0 °C	3791 psi @ Strain 0.500 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	27.47 MPa @ Strain 0.430 %, Temperature 40.0 °C	3984 psi @ Strain 0.430 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	30.18 MPa @ Strain 0.440 %, Temperature 23.0 °C	4377 psi @ Strain 0.440 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	33.18 MPa @ Strain 0.780 %, Temperature 160 °C	4812 psi @ Strain 0.780 %, Temperature 320 °F	DAM; ISO 11403-1 -2
	35.5 MPa @ Strain 0.970 %, Temperature 180 °C	5150 psi @ Strain 0.970 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	37.48 MPa @ Strain 0.640 %, Temperature 90.0 °C	5436 psi @ Strain 0.640 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	40.44 MPa @ Strain 1.33 %, Temperature 150 °C	5865 psi @ Strain 1.33 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	50.14 MPa @ Strain 1.34 %, Temperature 150 °C	7272 psi @ Strain 1.34 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	50.17 MPa @ Strain 1.12 %, Temperature 90.0 °C	7277 psi @ Strain 1.12 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	54.49 MPa @ Strain 2.25 %, Temperature 150 °C	7903 psi @ Strain 2.25 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	55.94 MPa @ Strain 0.970 %, Temperature 40.0 °C	8113 psi @ Strain 0.970 %, Temperature 104 °F	50%RH; ISO 11403-1 -2

<b>57.46 MPa</b> @ Strain 2.28 %, Temperature 180 °C	<b>8334 psi</b> @ Strain 2.28 %, Temperature 356 °F	DAM; ISO 11403-1 -2
<b>58.23 MPa</b> @ Strain 1.85 %, Temperature 160 °C	<b>8446 psi</b> @ Strain 1.85 %, Temperature 320 °F	DAM; ISO 11403-1 -2
<b>61.0 MPa</b> @ Strain 0.960 %, Temperature 23.0 °C	<b>8850 psi</b> @ Strain 0.960 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
<b>65.05 MPa</b> @ Strain 3.41 %, Temperature 150 °C	<b>9435 psi</b> @ Strain 3.41 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
<b>66.63 MPa</b> @ Strain 1.33 %, Temperature 90.0 °C	<b>9664 psi</b> @ Strain 1.33 %, Temperature 194 °F	DAM; ISO 11403-1 -2
<b>67.97 MPa</b> @ Strain 1.81 %, Temperature 90.0 °C	<b>9858 psi</b> @ Strain 1.81 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
<b>70.03 MPa</b> @ Strain 3.67 %, Temperature 180 °C	<b>10160 psi</b> @ Strain 3.67 %, Temperature 356 °F	DAM; ISO 11403-1 -2
<b>70.06 MPa</b> @ Strain 2.40 %, Temperature 150 °C	<b>10160 psi</b> @ Strain 2.40 %, Temperature 302 °F	DAM; ISO 11403-1 -2
<b>73.95 MPa</b> @ Strain 3.04 %, Temperature 160 °C	<b>10730 psi</b> @ Strain 3.04 %, Temperature 320 °F	DAM; ISO 11403-1 -2
<b>76.99 MPa</b> @ Strain 1.49 %, Temperature 40.0 °C	<b>11170 psi</b> @ Strain 1.49 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
<b>77.13 MPa</b> @ Strain 0.840 %, Temperature 0.000 °C	<b>11190 psi</b> @ Strain 0.840 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
<b>78.05 MPa</b> @ Strain 5.21 %, Temperature 180 °C	<b>11320 psi</b> @ Strain 5.21 %, Temperature 356 °F	DAM; ISO 11403-1 -2
<b>79.62 MPa</b> @ Strain 8.50 %, Temperature 150 °C	<b>11550 psi</b> @ Strain 8.50 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
<b>82.36 MPa</b> @ Strain 2.68 %, Temperature 90.0 °C	<b>11950 psi</b> @ Strain 2.68 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
<b>83.34 MPa</b> @ Strain 3.62 %, Temperature 150 °C	<b>12090 psi</b> @ Strain 3.62 %, Temperature 302 °F	DAM; ISO 11403-1 -2
<b>84.28 MPa</b> @ Strain 4.40 %, Temperature 160 °C	<b>12220 psi</b> @ Strain 4.40 %, Temperature 320 °F	DAM; ISO 11403-1 -2
<b>84.82 MPa</b> @ Strain 1.46 %, Temperature 23.0 °C	<b>12300 psi</b> @ Strain 1.46 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
<b>91.22 MPa</b> @ Strain 2.14 %, Temperature 90.0 °C	<b>13230 psi</b> @ Strain 2.14 %, Temperature 194 °F	DAM; ISO 11403-1 -2
<b>96.18 MPa</b> @ Strain 2.14 %, Temperature 40.0 °C	<b>13950 psi</b> @ Strain 2.14 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
<b>99.59 MPa</b> @ Strain 8.88 %, Temperature 150 °C	<b>14440 psi</b> @ Strain 8.88 %, Temperature 302 °F	DAM; ISO 11403-1 -2
<b>102.17 MPa</b> @ Strain 1.00 %, Temperature 40.0 °C	<b>14819 psi</b> @ Strain 1.00 %, Temperature 104 °F	DAM; ISO 11403-1 -2
<b>105.9 MPa</b> @ Strain 2.02 %, Temperature 23.0 °C	<b>15360 psi</b> @ Strain 2.02 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
<b>109.3 MPa</b> @ Strain 3.05 %, Temperature 90.0 °C	<b>15850 psi</b> @ Strain 3.05 %, Temperature 194 °F	DAM; ISO 11403-1 -2
<b>113.89 MPa</b> @ Strain 1.36 %, Temperature 0.000 °C	<b>16518 psi</b> @ Strain 1.36 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
<b>131.27 MPa</b> @ Strain 1.25 %, Temperature -20.0 °C	<b>19039 psi</b> @ Strain 1.25 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
<b>138.45 MPa</b> @ Strain 1.80 %, Temperature 0.000 °C	<b>20081 psi</b> @ Strain 1.80 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
<b>139.51 MPa</b> @ Strain 1.35 %, Temperature 23.0 °C	<b>20234 psi</b> @ Strain 1.35 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
<b>141.94 MPa</b> @ Strain 1.56 %, Temperature 40.0 °C	<b>20587 psi</b> @ Strain 1.56 %, Temperature 104 °F	DAM; ISO 11403-1 -2
<b>148 MPa</b> @ Strain 1.40 %, Temperature 0.000 °C	<b>21500 psi</b> @ Strain 1.40 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
<b>157 MPa</b> @ Strain 1.47 %, Temperature -20.0 °C	<b>22800 psi</b> @ Strain 1.47 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
<b>160.61 MPa</b> @ Strain 2.32 %, Temperature 0.000 °C	<b>23295 psi</b> @ Strain 2.32 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
<b>162.51 MPa</b> @ Strain 1.65 %, Temperature -20.0 °C	<b>23570 psi</b> @ Strain 1.65 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
<b>167.15 MPa</b> @ Strain 2.06 %, Temperature 40.0 °C	<b>24243 psi</b> @ Strain 2.06 %, Temperature 104 °F	DAM; ISO 11403-1 -2
<b>175.14 MPa</b> @ Strain 1.85 %, Temperature 23.0 °C	<b>25402 psi</b> @ Strain 1.85 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2

<b>187.61 MPa</b> @ Strain 2.76 %, Temperature 40.0 °C	<b>27211 psi</b> @ Strain 2.76 %, Temperature 104 °F	DAM; ISO 11403-1 -2
<b>188.82 MPa</b> @ Strain 1.91 %, Temperature 0.000 °C	<b>27386 psi</b> @ Strain 1.91 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
<b>199.51 MPa</b> @ Strain 2.24 %, Temperature -20.0 °C	<b>28937 psi</b> @ Strain 2.24 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2