DuPont Performance Polymers Zytel® 70G35HSLX BK357 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 70G35HSLX BK357 is a 35% glass fiber reinforced heat stabilized black polyamide 66 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-70G35HSLX-BK357-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in³	
	1.41 g/cc	0.0509 lb/in³	DAM; ISO 1183
Water Absorption	5.5 % @Thickness 2.00 mm	5.5 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	1.70 % @Thickness 2.00 mm	1.70 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Viscosity	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
Viscosity Test	145 cm³/g	145 cm³/g	DAM; ISO 307 1157 1628

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 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
	210 MPa	30500 psi	DAM; ISO 527-1/-2
Tensile Stress	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	7277 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 1.12 %, Temperature 90.0 °C	@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
	57.46 MPa @Strain 2.28 %, Temperature 180 °C	8334 psi @Strain 2.28 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	58.23 MPa @Strain 1.85 %, Temperature 160 °C	8446 psi @Strain 1.85 %, Temperature 320 °F	DAM; ISO 11403-1 -2
	61.0 MPa @Strain 0.960 %, Temperature 23.0 °C	8850 psi @Strain 0.960 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	65.05 MPa @Strain 3.41 %, Temperature 150 °C	9435 psi @Strain 3.41 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	66.63 MPa @Strain 1.33 %, Temperature 90.0 °C	9664 psi @Strain 1.33 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	67.97 MPa @Strain 1.81 %, Temperature 90.0 °C	9858 psi @Strain 1.81 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	70.03 MPa @Strain 3.67 %, Temperature 180 °C	10160 psi @Strain 3.67 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	70.06 MPa @Strain 2.40 %, Temperature 150 °C	10160 psi @Strain 2.40 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	73.95 MPa @Strain 3.04 %, Temperature 160 °C	10730 psi @Strain 3.04 %, Temperature 320 °F	DAM; ISO 11403-1 -2
	76.99 MPa @Strain 1.49 %, Temperature 40.0 °C	11170 psi @Strain 1.49 %, Temperature 104 °F	50%RH; ISO 11403-1 -2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 0.840 %, Temperature 0.000 °C	@Strain 0.840 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	78.05 MPa @Strain 5.21 %, Temperature 180 °C	11320 psi @Strain 5.21 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	79.62 MPa @Strain 8.50 %, Temperature 150 °C	11550 psi @Strain 8.50 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	82.36 MPa @Strain 2.68 %, Temperature 90.0 °C	11950 psi @Strain 2.68 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	83.34 MPa @Strain 3.62 %, Temperature 150 °C	12090 psi @Strain 3.62 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	84.28 MPa @Strain 4.40 %, Temperature 160 °C	12220 psi @Strain 4.40 %, Temperature 320 °F	DAM; ISO 11403-1 -2
	84.82 MPa @Strain 1.46 %, Temperature 23.0 °C	12300 psi @Strain 1.46 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	91.22 MPa @Strain 2.14 %, Temperature 90.0 °C	13230 psi @Strain 2.14 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	96.18 MPa @Strain 2.14 %, Temperature 40.0 °C	13950 psi @Strain 2.14 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	99.59 MPa @Strain 8.88 %, Temperature 150 °C	14440 psi @Strain 8.88 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	102.17 MPa @Strain 1.00 %, Temperature 40.0 °C	14819 psi @Strain 1.00 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	105.9 MPa @Strain 2.02 %, Temperature 23.0 °C	15360 psi @Strain 2.02 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	109.3 MPa	15850 psi	DAM; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	@Strain 3.05 %, Temperature 90.0 °C	@Strain 3.05 %, Temperature 194 °F	
	113.89 MPa @Strain 1.36 %, Temperature 0.000 °C	16518 psi @Strain 1.36 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	131.27 MPa @Strain 1.25 %, Temperature -20.0 °C	19039 psi @Strain 1.25 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	138.45 MPa @Strain 1.80 %, Temperature 0.000 °C	20081 psi @Strain 1.80 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	139.51 MPa @Strain 1.35 %, Temperature 23.0 °C	20234 psi @Strain 1.35 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	141.94 MPa @Strain 1.56 %, Temperature 40.0 °C	20587 psi @Strain 1.56 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	148 MPa @Strain 1.40 %, Temperature 0.000 °C	21500 psi @Strain 1.40 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	157 MPa @Strain 1.47 %, Temperature -20.0 °C	22800 psi @Strain 1.47 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	160.61 MPa @Strain 2.32 %, Temperature 0.000 °C	23295 psi @Strain 2.32 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	162.51 MPa @Strain 1.65 %, Temperature -20.0 °C	23570 psi @Strain 1.65 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	167.15 MPa @Strain 2.06 %, Temperature 40.0 °C	24243 psi @Strain 2.06 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	175.14 MPa @Strain 1.85 %, Temperature 23.0 °C	25402 psi @Strain 1.85 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	187.61 MPa @Strain 2.76 %, Temperature 40.0 °C	27211 psi @Strain 2.76 %, Temperature 104 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	188.82 MPa @Strain 1.91 %, Temperature 0.000 °C	27386 psi @Strain 1.91 %, Temperature 32.0 °F	23±2; ISO 11403-1 -2
	199.51 MPa @Strain 2.24 %, Temperature -20.0 °C	28937 psi @Strain 2.24 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2

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