DuPont Performance Polymers Zytel® 73G30T NC010 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

30% Glass Reinforced Toughened Polyamide 6 Zytel 73G30T NC010 is a 30% glass fiber reinforced toughened polyamide 6 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-73G30T-NC010-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in³	
	1.34 g/cc	0.0484 lb/in³	DAM; ISO 1183
Water Absorption	6.2 % @Thickness 2.00 mm	6.2 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	1.80 % @Thickness 2.00 mm	1.80 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Viscosity	67600 cP @Shear Rate 5000 1/s, Temperature 280 °C	67600 cP @Shear Rate 5000 1/s, Temperature 536 °F	ISO 11403-1 -2
	76791 cP @Shear Rate 5000 1/s, Temperature 270 °C	76791 cP @Shear Rate 5000 1/s, Temperature 518 °F	ISO 11403-1 -2
	88000 cP @Shear Rate 5000 1/s, Temperature 260 °C	88000 cP @Shear Rate 5000 1/s, Temperature 500 °F	ISO 11403-1 -2
	220700 cP @Shear Rate 500 1/s, Temperature 280 °C	220700 cP @Shear Rate 500 1/s, Temperature 536 °F	ISO 11403-1 -2
	260300 cP @Shear Rate 500 1/s, Temperature 270 °C	260300 cP @Shear Rate 500 1/s, Temperature 518 °F	ISO 11403-1 -2
	308100 cP @Shear Rate 500 1/s, Temperature 260 °C	308100 cP @Shear Rate 500 1/s, Temperature 500 °F	ISO 11403-1 -2
Viscosity Test	135 cm³/g	135 cm³/g	DAM; ISO 307 1157 1628

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	50%RH; ISO 527-1/-2
	170 MPa	24700 psi	DAM; ISO 527-1/-2
Tensile Stress	18.4 MPa @Strain 0.550 %, Temperature 150 °C	2670 psi @Strain 0.550 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	20.9 MPa @Strain 0.550 %, Temperature 90.0 °C	3030 psi @Strain 0.550 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	29.5 MPa @Strain 0.450 %, Temperature 40.0 °C	4280 psi @Strain 0.450 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	33.7 MPa @Strain 0.340 %, Temperature -20.0 °C	4890 psi @Strain 0.340 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	34.1 MPa @Strain 0.400 %, Temperature 23.0 °C	4950 psi @Strain 0.400 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	34.9 MPa @Strain 0.730 %, Temperature 23.0 °C	5060 psi @Strain 0.730 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	36.3 MPa @Strain 0.380 %, Temperature 0.000 °C	5260 psi @Strain 0.380 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	44.5 MPa @Strain 2.20 %, Temperature 150 °C	6450 psi @Strain 2.20 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	54.5 MPa @Strain 2.20 %, Temperature 90.0 °C	7900 psi @Strain 2.20 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	58.7 MPa @Strain 4.95 %, Temperature 150 °C	8510 psi @Strain 4.95 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	69.9 MPa	10100 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 3.85 %, Temperature 90.0 °C	@Strain 3.85 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	81.2 MPa @Strain 5.50 %, Temperature 90.0 °C	11800 psi @Strain 5.50 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	88.6 MPa @Strain 2.92 %, Temperature 23.0 °C	12900 psi @Strain 2.92 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	92.0 MPa @Strain 1.80 %, Temperature 40.0 °C	13300 psi @Strain 1.80 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	103 MPa @Strain 5.84 %, Temperature 23.0 °C	14900 psi @Strain 5.84 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	116 MPa @Strain 1.60 %, Temperature 23.0 °C	16800 psi @Strain 1.60 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	120 MPa @Strain 3.15 %, Temperature 40.0 °C	17400 psi @Strain 3.15 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	122 MPa @Strain 1.36 %, Temperature -20.0 °C	17700 psi @Strain 1.36 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	127 MPa @Strain 1.52 %, Temperature 0.000 °C	18400 psi @Strain 1.52 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	156 MPa @Strain 2.80 %, Temperature 23.0 °C	22600 psi @Strain 2.80 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	177 MPa @Strain 2.66 %, Temperature 0.000 °C	25700 psi @Strain 2.66 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	182 MPa @Strain 2.38 %, Temperature -20.0 °C	26400 psi @Strain 2.38 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	189 MPa @Strain 3.80 %, Temperature 0.000 °C	27400 psi @Strain 3.80 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	@Strain 3.40 %, Temperature -20.0 °C	@Strain 3.40 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
Elongation at Break	3.0 %	3.0 %	DAM; ISO 527-1/-2
	6.0 %	6.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	5.70 GPa	827 ksi	50%RH; ISO 527-1/-2
	9.10 GPa	1320 ksi	DAM; ISO 527-1/-2
Flexural Modulus	5.70 GPa	827 ksi	50%RH; ISO 178
	9.00 GPa	1310 ksi	DAM; ISO 178
Shear Modulus	0.5372 GPa @Temperature 150 °C	77.92 ksi @Temperature 302 °F	DAM; Dynamic; ISO 11403-1 -2
	0.5783 GPa @Temperature 110 °C	83.88 ksi @Temperature 230 °F	DAM; Dynamic; ISO 11403-1 -2
	0.8342 GPa @Temperature 60.0 °C	121.0 ksi @Temperature 140 °F	DAM; Dynamic; ISO 11403-1 -2
	1.7163 GPa @Temperature 10.0 °C	248.93 ksi @Temperature 50.0 °F	DAM; Dynamic; ISO 11403-1 -2
	1.7688 GPa @Temperature -20.0 °C	256.55 ksi @Temperature -4.00 °F	DAM; Dynamic; ISO 11403-1 -2
	1.9299 GPa @Temperature -50.0 °C	279.91 ksi @Temperature -58.0 °F	DAM; Dynamic; ISO 11403-1 -2
Secant Modulus	3.03 GPa @Strain 2.92 %, Temperature 23.0 °C	440 ksi @Strain 2.92 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	3.42 GPa @Strain 3.60 %, Temperature 40.0 °C	496 ksi @Strain 3.60 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	4.78 GPa @Strain 0.730 %, Temperature 23.0 °C	693 ksi @Strain 0.730 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	5.00 GPa @Strain 3.20 %, Temperature 23.0 °C	725 ksi @Strain 3.20 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	@Strain 1.80 %, Temperature 40.0 °C	@Strain 1.80 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	6.09 GPa @Strain 3.04 %, Temperature 0.000 °C	883 ksi @Strain 3.04 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	6.56 GPa @Strain 0.450 %, Temperature 40.0 °C	951 ksi @Strain 0.450 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	7.13 GPa @Strain 2.72 %, Temperature -20.0 °C	1030 ksi @Strain 2.72 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	7.25 GPa @Strain 1.60 %, Temperature 23.0 °C	1050 ksi @Strain 1.60 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	8.36 GPa @Strain 1.52 %, Temperature 0.000 °C	1210 ksi @Strain 1.52 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	8.525 GPa @Strain 0.400 %, Temperature 23.0 °C	1236 ksi @Strain 0.400 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	8.97 GPa @Strain 1.36 %, Temperature -20.0 °C	1300 ksi @Strain 1.36 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	9.55 GPa @Strain 0.380 %, Temperature 0.000 °C	1390 ksi @Strain 0.380 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	9.91 GPa @Strain 0.340 %, Temperature -20.0 °C	1440 ksi @Strain 0.340 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
Izod Impact, Notched (ISO)	17.0 kJ/m²	8.09 ft-lb/in²	DAM; ISO 180/1A

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