

DuPont Performance Polymers Zytel® 73G15L NC010 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

15% Glass Reinforced Polyamide 6 Zytel 73G15L NC010 is a 15% glass fiber reinforced 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-73G15L-NC010-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	
	1.23 g/cc	0.0444 lb/in ³	DAM; ISO 1183
Water Absorption	7.6 %	7.6 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	2.50 %	2.50 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	DAM; Sim. to ISO 62
Viscosity Test	150 cm ³ /g	150 cm ³ /g	DAM; ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	50%RH; ISO 527-1/-2
	135 MPa	19600 psi	DAM; ISO 527-1/-2
Tensile Stress	4.30 MPa	624 psi	
	@Strain 0.240 %, Temperature 150 °C	@Strain 0.240 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	7.19 MPa	1040 psi	
	@Strain 0.270 %, Temperature 40.0 °C	@Strain 0.270 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	7.60 MPa	1100 psi	
	@Strain 0.250 %, Temperature 23.0 °C	@Strain 0.250 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	12.69 MPa	1841 psi	
	@Strain 0.620 %, Temperature 23.0 °C	@Strain 0.620 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Temperature 150 °C Metric	Temperature 302 °F English	Comments
	15.61 MPa	2264 psi	
	@Strain 1.08 %, Temperature 150 °C	@Strain 1.08 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	16.85 MPa	2444 psi	
	@Strain 0.330 %, Temperature 0.000 °C	@Strain 0.330 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	23.05 MPa	3343 psi	
	@Strain 2.05 %, Temperature 150 °C	@Strain 2.05 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	28.13 MPa	4080 psi	
	@Strain 3.05 %, Temperature 150 °C	@Strain 3.05 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	28.97 MPa	4201 psi	
	@Strain 0.400 %, Temperature -40.0 °C	@Strain 0.400 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	29.16 MPa	4229 psi	
	@Strain 1.85 %, Temperature 150 °C	@Strain 1.85 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	33.36 MPa	4838 psi	
	@Strain 1.49 %, Temperature 40.0 °C	@Strain 1.49 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	37.35 MPa	5417 psi	
	@Strain 1.43 %, Temperature 23.0 °C	@Strain 1.43 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	39.21 MPa	5687 psi	
	@Strain 3.13 %, Temperature 150 °C	@Strain 3.13 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	42.59 MPa	6177 psi	
	@Strain 0.810 %, Temperature 40.0 °C	@Strain 0.810 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	45.14 MPa	6547 psi	
	@Strain 4.46 %, Temperature 150 °C	@Strain 4.46 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	49.68 MPa	7205 psi	
	@Strain 2.64 %, Temperature 40.0 °C	@Strain 2.64 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	56.39 MPa	8179 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 2.57 %, Temperature 23.0 °C	@Strain 2.57 %, Temperature 73.4 °F	553.5N/127 11403-1 -2
	56.95 MPa	8260 psi	
	@Strain 0.900 %, Temperature -20.0 °C	@Strain 0.900 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	58.81 MPa	8530 psi	
	@Strain 1.32 %, Temperature 0.000 °C	@Strain 1.32 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	59.7 MPa	8660 psi	
	@Strain 3.93 %, Temperature 40.0 °C	@Strain 3.93 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	63.4 MPa	9200 psi	
	@Strain 1.10 %, Temperature 23.0 °C	@Strain 1.10 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	68.83 MPa	9983 psi	
	@Strain 3.84 %, Temperature 23.0 °C	@Strain 3.84 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	70.36 MPa	10200 psi	
	@Strain 1.44 %, Temperature 40.0 °C	@Strain 1.44 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	84.36 MPa	12240 psi	
	@Strain 1.46 %, Temperature 0.000 °C	@Strain 1.46 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	85.29 MPa	12370 psi	
	@Strain 2.35 %, Temperature 0.000 °C	@Strain 2.35 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	90.95 MPa	13190 psi	
	@Strain 2.07 %, Temperature 40.0 °C	@Strain 2.07 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	93.32 MPa	13530 psi	
	@Strain 1.60 %, Temperature -20.0 °C	@Strain 1.60 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	94.32 MPa	13680 psi	
	@Strain 1.74 %, Temperature 23.0 °C	@Strain 1.74 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	98.54 MPa	14290 psi	
	@Strain 1.69 %, Temperature -20.0 °C	@Strain 1.69 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	101.18 MPa	14678 psi	
	@Strain 3.43 %, Temperature 0.000 °C	@Strain 3.43 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	105.22 MPa	15261 psi	
	@Strain 2.84 %, Temperature 40.0 °C	@Strain 2.84 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	106.2 MPa	15400 psi	
	@Strain 1.60 %, Temperature -40.0 °C	@Strain 1.60 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	107.08 MPa	15531 psi	
	@Strain 1.94 %, Temperature 0.000 °C	@Strain 1.94 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	114.51 MPa	16608 psi	
	@Strain 2.25 %, Temperature 23.0 °C	@Strain 2.25 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	119.26 MPa	17297 psi	
	@Strain 2.35 %, Temperature -20.0 °C	@Strain 2.35 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	122.31 MPa	17740 psi	
	@Strain 2.20 %, Temperature -20.0 °C	@Strain 2.20 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	125.45 MPa	18195 psi	
	@Strain 2.39 %, Temperature 0.000 °C	@Strain 2.39 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	130.93 MPa	18990 psi	
	@Strain 2.89 %, Temperature 23.0 °C	@Strain 2.89 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	134.96 MPa	19574 psi	
	@Strain 3.12 %, Temperature -20.0 °C	@Strain 3.12 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	140.72 MPa	20410 psi	
	@Strain 2.87 %, Temperature 0.000 °C	@Strain 2.87 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	141.08 MPa	20462 psi	
	@Strain 2.68 %, Temperature -20.0 °C	@Strain 2.68 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	156.08 MPa	22638 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 3.17 %, Temperature -20.0 °C	@Strain 3.17 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	161.7 MPa	23460 psi	
	@Strain 2.80 %, Temperature -40.0 °C	@Strain 2.80 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
Elongation at Break	4.0 %	4.0 %	DAM; ISO 527-1/-2
	10 %	10 %	50%RH; ISO 527-1/-2
Tensile Modulus	3.50 GPa	508 ksi	50%RH; ISO 527-1/-2
	6.00 GPa	870 ksi	DAM; ISO 527-1/-2
	1.693 GPa	245.5 ksi	50%RH; ISO 11403-1 -2
	@Temperature 150 °C	@Temperature 302 °F	
	1.988 GPa	288.3 ksi	DAM; ISO 11403-1 -2
	@Temperature 150 °C	@Temperature 302 °F	
	2.427 GPa	352.0 ksi	50%RH; ISO 11403-1 -2
	@Temperature 60.0 °C	@Temperature 140 °F	
	3.007 GPa	436.1 ksi	DAM; ISO 11403-1 -2
	@Temperature 60.0 °C	@Temperature 140 °F	
	6.325 GPa	917.4 ksi	DAM; ISO 11403-1 -2
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	6.451 GPa	935.6 ksi	50%RH; ISO 11403-1 -2
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Flexural Modulus	5.00 GPa	725 ksi	DAM; ISO 178
Shear Modulus	0.407 GPa	59.0 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 160 °C	@Temperature 320 °F	
	0.429 GPa	62.2 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 120 °C	@Temperature 248 °F	
	0.537 GPa	77.9 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 70.0 °C	@Temperature 158 °F	

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