

DuPont Performance Polymers Zytel® 70G33L NC010 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

33% Glass Reinforced Polyamide 66 Zytel 70G33L NC010 is a 33% glass fiber reinforced polyamide 66 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-70G33L-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	DAM; ISO 1183
Water Absorption	5.7 %	5.7 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	1.80 %	1.80 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Water Absorption at Saturation	1.2 %	1.2 %	DAM; Immersion 24h; ASTM D570
Viscosity Test	145 cm ³ /g	145 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	0.011 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
	200 MPa	29000 psi	DAM; ISO 527-1/-2
Tensile Stress	10.0 MPa	1450 psi	50%RH; isochronous; ISO 11403-1 -2
	@Strain 0.120 %, Time 3600 sec	@Strain 0.120 %, Time 1.00 hour	
	10.0 MPa	1450 psi	50%RH; isochronous; ISO 11403-1 -2
	@Strain 0.125 %, Time 36000 sec	@Strain 0.125 %, Time 10.0 hour	
	10.0 MPa	1450 psi	50%RH; isochronous; ISO 11403-1 -2
	@Strain 0.130 %, Time 360000 sec	@Strain 0.130 %, Time 100 hour	
	10.0 MPa	1450 psi	50%RH; isochronous; ISO 11403-1 -2
	@Strain 0.150 %, Time 360000 sec	@Strain 0.150 %, Time 100 hour	

Mechanical Properties	Time 3.60e+6 sec Metric	Time 1000 hour English	Comments
Elongation at Break	3.5 %	3.5 %	DAM; ISO 527-1/-2
	5.0 %	5.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	8.00 GPa	1160 ksi	50%RH; ISO 527-1/-2
	10.5 GPa	1520 ksi	DAM; ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	50%RH; ISO 178
	290 MPa	42100 psi	DAM; ISO 178
Flexural Modulus	6.21 GPa	901 ksi	50%RH; ISO 178
	9.30 GPa	1350 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	DAM; ISO 180/1A
	15.0 kJ/m ²	7.14 ft-lb/in ²	50%RH; ISO 180/1A
	10.0 kJ/m ²	4.76 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	10.0 kJ/m ²	4.76 ft-lb/in ²	50%RH; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	80.0 kJ/m ²	38.1 ft-lb/in ²	DAM; ISO 180/1U
	90.0 kJ/m ²	42.8 ft-lb/in ²	50%RH; ISO 180/1U
	70.0 kJ/m ²	33.3 ft-lb/in ²	DAM; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	70.0 kJ/m ²	33.3 ft-lb/in ²	50%RH; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	DAM; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	50%RH; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	DAM; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	7.50 J/cm ² Metric	35.7 ft-lb/in ² English	50.0 ft-lb/in ² 179/1eJ Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	DAM; ISO 179/1eA
	1.70 J/cm ²	8.09 ft-lb/in ²	50%RH; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Creep Modulus, 1 hour	3190 MPa	463000 psi	50%RH; ISO 11403-1 -2
	@Pressure 30.0 MPa, Temperature 150 °C	@Pressure 4350 psi, Temperature 302 °F	
	3210 MPa	466000 psi	50%RH; ISO 11403-1 -2
	@Pressure 25.0 MPa, Temperature 150 °C	@Pressure 3630 psi, Temperature 302 °F	
	3240 MPa	469000 psi	50%RH; ISO 11403-1 -2
	@Pressure 20.0 MPa, Temperature 150 °C	@Pressure 2900 psi, Temperature 302 °F	
	3260 MPa	473000 psi	50%RH; ISO 11403-1 -2
	@Pressure 15.0 MPa, Temperature 150 °C	@Pressure 2180 psi, Temperature 302 °F	
	3280 MPa	476000 psi	50%RH; ISO 11403-1 -2
	@Pressure 10.0 MPa, Temperature 150 °C	@Pressure 1450 psi, Temperature 302 °F	
	3290 MPa	478000 psi	50%RH; ISO 11403-1 -2
	@Pressure 5.00 MPa, Temperature 150 °C	@Pressure 725 psi, Temperature 302 °F	
	3570 MPa	518000 psi	50%RH; ISO 11403-1 -2
	@Pressure 5.00 MPa, Temperature 100 °C	@Pressure 725 psi, Temperature 212 °F	
	3570 MPa	518000 psi	50%RH; ISO 11403-1 -2
	@Pressure 10.0 MPa,	@Pressure 1450 psi,	

Mechanical Properties	Temperature 100 °C	Temperature 212 °F	Comments
	Metric 3570 MPa	English 518000 psi	
	@Pressure 15.0 MPa, Temperature 100 °C	@Pressure 2180 psi, Temperature 212 °F	50%RH; ISO 11403-1 -2
	3570 MPa	518000 psi	
	@Pressure 20.0 MPa, Temperature 100 °C	@Pressure 2900 psi, Temperature 212 °F	50%RH; ISO 11403-1 -2
	3570 MPa	518000 psi	
	@Pressure 25.0 MPa, Temperature 100 °C	@Pressure 3630 psi, Temperature 212 °F	50%RH; ISO 11403-1 -2
	3570 MPa	518000 psi	
	@Pressure 30.0 MPa, Temperature 100 °C	@Pressure 4350 psi, Temperature 212 °F	50%RH; ISO 11403-1 -2
	8110 MPa	1.18e+6 psi	
	@Pressure 30.0 MPa, Temperature 23.0 °C	@Pressure 4350 psi, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	8150 MPa	1.18e+6 psi	
	@Pressure 25.0 MPa, Temperature 23.0 °C	@Pressure 3630 psi, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	8210 MPa	1.19e+6 psi	
	@Pressure 20.0 MPa, Temperature 23.0 °C	@Pressure 2900 psi, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	8270 MPa	1.20e+6 psi	
	@Pressure 15.0 MPa, Temperature 23.0 °C	@Pressure 2180 psi, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	8330 MPa	1.21e+6 psi	
	@Pressure 10.0 MPa, Temperature 23.0 °C	@Pressure 1450 psi, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	8380 MPa	1.21e+6 psi	
	@Pressure 5.00 MPa, Temperature 23.0 °C	@Pressure 725 psi, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	8000 MPa	1.16e+6 psi	
	@Time 3600 sec	@Time 1.00 hour	50%RH; ISO 899-1
Tensile Creep Modulus, 1000 hours	2680 MPa	388000 psi	
	@Pressure 30.0 MPa, Temperature 150 °C	@Pressure 4350 psi, Temperature 302 °F	50%RH; ISO 11403-1 -2
	2690 MPa	391000 psi	
	@Pressure 25.0 MPa,	@Pressure 3630 psi,	50%RH; ISO 11403-1 -2

Mechanical Properties	Temperature 150 °C Metric	Temperature 302 °F English	Comments
	2710 MPa @Pressure 20.0 MPa, Temperature 150 °C	393000 psi @Pressure 2900 psi, Temperature 302 °F	50%RH; ISO 11403-1 -2
	2730 MPa @Pressure 15.0 MPa, Temperature 150 °C	396000 psi @Pressure 2180 psi, Temperature 302 °F	50%RH; ISO 11403-1 -2
	2740 MPa @Pressure 10.0 MPa, Temperature 150 °C	398000 psi @Pressure 1450 psi, Temperature 302 °F	50%RH; ISO 11403-1 -2
	2750 MPa @Pressure 5.00 MPa, Temperature 150 °C	399000 psi @Pressure 725 psi, Temperature 302 °F	50%RH; ISO 11403-1 -2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China