

DuPont Performance Polymers Zytel® 70G30L NC010 Nylon 66 (Unverified Data**)

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

Material Notes:

30% Glass Reinforced Polyamide 66 Zytel 70G30L NC010 is a 30% 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-70G30L-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	
	1.37 g/cc	0.0495 lb/in ³	DAM; ISO 1183
Water Absorption	6.9 %	6.9 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	2.00 %	2.00 %	
	@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	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	50%RH; ISO 527-1/-2
	195 MPa	28300 psi	DAM; ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	DAM; ISO 527-1/-2
	5.0 %	5.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	7.20 GPa	1040 ksi	50%RH; ISO 527-1/-2
	9.80 GPa	1420 ksi	DAM; ISO 527-1/-2
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	DAM; ISO 180/1A
	14.0 kJ/m ²	6.66 ft-lb/in ²	50%RH; ISO 180/1A
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	DAM; ISO 179/1eU
	9.30 J/cm ²	44.3 ft-lb/in ²	50%RH; ISO 179/1eU

Mechanical Properties	6.00 J/cm ² Metric	28.6 ft-lb/in ² English	Comments DAM; ISO 179/1eU
	@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
	1.50 J/cm ²	7.14 ft-lb/in ²	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.0 µm/m-°C	15.6 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	95.0 µm/m-°C	52.8 µin/in-°F	DAM; ISO 11359-1/-2
Specific Heat Capacity	2.29 J/g-°C	0.547 BTU/lb-°F	
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft ² -°F	of melt
Melting Point	262 °C	504 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	253 °C	487 °F	DAM; ISO 75-1/-2
Glass Transition Temp, Tg	80.0 °C	176 °F	DAM; 10°C/min; ISO 11357-1/-2
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.700 mm	@Thickness 0.0276 in	
Oxygen Index	24 %	24 %	DAM; ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	DAM; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	50%RH; IEC 60093
Dissipation Factor	0.016	0.016	DAM; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.016	0.016	DAM; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112
	>= 600 V	>= 600 V	DAM; UL 746A

Electrical Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
Descriptive Properties	Value		Comments
Additives	Lubricants		
	Release agent		
Delivery Form	Pellets		
Eff. thermal diffusivity	6.85E-08 m ² /s		
Part Marking Code	>PA66-GF30<		ISO 11469
Processing	Injection Moulding		
Regional Availability	Asia Pacific		
	Europe		
	Global		
	Near East/Africa		
	North America		
	South and Central America		
Resin Identification	PA66-GF30		
UL recognition	UL		DAM

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