Zytel® 70G30L NC010 NYLON RESIN

Product Description			
Zytel® 70G30L NC010 is a 30% glas	s fiber reinforced polyamide 66 resin	for injection molding.	
General			
Material Status	 Commercial: Active 		
Availability	 Asia Pacific 	 Europe 	North America
Filler / Reinforcement	 Glass Fiber Reinforcement, 	30% Filler by Weight	
Features	Fatigue ResistantFuel ResistantGeneral Purpose	Good Chemical ResistanceGood Creep ResistanceGrease Resistant	 High Stiffness High Strength Oil Resistant
Uses	Appliance ComponentsAutomotive Applications	Electrical/Electronic ApplicationsIndustrial Applications	
RoHS Compliance	 Contact Manufacturer 		
Appearance	 Natural Color 		
Processing Method	 Injection Molding 		
Part Marking Code (ISO 11469)	>PA66-GF30		
Resin ID (ISO 1043)	• PA66-GF30		
Product Category	 Glass Reinforced Resins 		

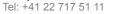
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37		g/cm³	ISO 1183
Molding Shrinkage	<u> </u>		<u></u>	ISO 294-4
Across Flow: 0.0787 in	1.1		%	
Flow: 0.0787 in	0.30		%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0394 in	6.9		%	
Equilibrium, 73°F, 0.0394 in, 50% RH	2.0		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.42E+6	1.04E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	28300	18900	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	5.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	7.1	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	29		ft·lb/in²	
73°F	38	44	ft·lb/in²	
Notched Izod Impact Strength (73°F)	5.7	6.7	ft·lb/in²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	487		°F	
Glass Transition Temperature	176		°F	ISO 11357-2
Melting Temperature ²	504		°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity		1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13		ohm⋅cm	IEC 60093
Dissipation Factor				IEC 60250
73°F, 100 Hz	0.016			
73°F, 1 MHz	0.016			

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating - UL				UL 94
0.0280 in	HB			
0.0591 in	HB			
0.118 in	HB			
Flammability Classification				IEC 60695-11-10, -20
0.0280 in	HB			
0.0591 in	HB			
0.118 in	HB			
Oxygen Index	24		%	ISO 4589-2
JL	Dry	Conditioned	Unit	Test Method
RTI Str				UL 746
0.0280 in	266		°F	
0.0591 in	266		°F	
0.118 in	266		°F	
RTI Imp				UL 746
0.0280 in	248		°F	
0.0591 in	248		°F	
0.118 in	248		°F	
RTI Elec				UL 746
0.0280 in	266		°F	
0.0591 in	266		°F	
0.118 in	266		°F	
Comparative Tracking Index (CTI) (0.118 in)	600		V	UL 746
Comparative Tracking Index (CTI) (PLC)				UL 746
0.118 in	PLC 0			

Injection	Dry Unit	
Drying Temperature	176 °F	
Drying Time	2.0 to 4.0 hr	
Suggested Max Moisture	< 0.20 %	
Processing (Melt) Temp	545 to 581 °F	
Melt Temperature, Optimum	563 °F	
Mold Temperature	158 to 248 °F	
Mold Temperature, Optimum	212 °F	

Drying Recommended Yes, if moisture content of resin exceeds recommended level

Notes

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¹ Typical properties: these are not to be construed as specifications.

² 10°C/min

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Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

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