

DuPont™ Zytel®

nylon resin

Zytel® 70G30L NC010

Zytel® 70G30L NC010 is a 30% glass fiber reinforced polyamide 66 resin for injection molding.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA66-GF30	
Part Marking Code	ISO 11469		>PA66-GF30<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	195 (28.3)	130 (18.9)
Strain at Break	ISO 527	%	3.5	5
Tensile Modulus	ISO 527	MPa (kpsi)	9800 (1400)	7200 (1045)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	13	15
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	80	93
Thermal				
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	253 (487)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	262 (504)	
Electrical				
CTI 3.0mm	UL 746A	V	600	

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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			DAM	50%RH
Flammability				
Flammability Classification 0.71mm	IEC 60695-11-10		HB	
Flammability Classification 0.71mm	UL94		HB	
High Amperage Arc Ignition Resistance 0.71mm	UL 746A	arcs	120	
1.5mm			120	
3.0mm			120	
Hot Wire Ignition 0.71mm	UL 746A	s	7	
1.5mm			7	
3.0mm			7	
Temperature Index				
RTI, Electrical 0.71mm	UL 746B	°C	130	
RTI, Impact 0.71mm	UL 746B	°C	120	
RTI, Strength 0.71mm	UL 746B	°C	130	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1370 (1.37)	
Molding Shrinkage Parallel, 2.0mm	ISO 294-4	%	0.3	
Processing				
Melt Temperature Range		°C (°F)	285-305 (545-580)	
Melt Temperature Optimum		°C (°F)	295 (565)	
Mold Temperature Range		°C (°F)	70-120 (160-250)	
Mold Temperature Optimum		°C (°F)	100 (210)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	<0.20	

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