Zytel® 73G30HSL NC010NYLON RESIN

Product Description Zytel® 73G30HSL NC010 is a 30% glass fiber reinforced, heat stabilized polyamide 6 resin for injection molding. Material Status · Commercial: Active Availability · Asia Pacific Europe · North America Filler / Reinforcement · Glass Fiber Reinforcement, 30% Filler by Weight Additive · Heat Stabilizer Lubricant Good Heat Aging Resistance Fatique Resistant Good Thermal Aging Features Fuel Resistant · Oil Resistant Resistance · Good Chemical Resistance · Grease Resistant Electrical/Electronic · Appliance Components Uses Applications · Industrial Applications Automotive Applications High Gloss Applications RoHS Compliance · Contact Manufacturer Appearance · Natural Color Processing Method · Injection Molding Part Marking Code (ISO 11469) • >PA6-GF30< Resin ID (ISO 1043) PA6-GF30 **Product Category** · Glass Reinforced Resins

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36		g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	0.244		in³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow: 0.0787 in	0.60		%	
Flow: 0.0787 in	0.20		%	
Water Absorption				ISO 62
Saturation, 73°F	6.3		%	
Equilibrium, 73°F, 50% RH	1.9		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.41E+6	841000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	26800	16700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	6.0	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr		898000	psi	
1000 hr		672000	psi	
mpact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.8	10	ft·lb/in²	
73°F	7.6	11	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	38	40	ft·lb/in²	
73°F	48	48	ft·lb/in²	
Notched Izod Impact Strength				ISO 180/1A
-22°F	4.8	5.2	ft·lb/in²	
73°F	7.1	9.5	ft·lb/in²	

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To find out more, visit plastics.dupont.com or contact the nearest DuPont location.

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Thermal	Dry	Conditioned	Unit	Test Method			
Heat Deflection Temperature							
66 psi, Unannealed	428		°F	ISO 75-2/B			
264 psi, Unannealed	410		°F	ISO 75-2/A			
Glass Transition Temperature	149		°F	ISO 11357-2			
Melting Temperature ²	430		°F	ISO 11357-3			
CLTE				ASTM E831 ISO 11359-2			
Flow: 73 to 131°F	0.000012		in/in/°F				
Transverse: 73 to 131°F	0.000057		in/in/°F				
lammability	Dry	Conditioned	Unit	Test Method			
Flame Rating - UL				UL 94			
0.0295 in	НВ						
0.0591 in	НВ						
0.118 in	НВ						
Flammability Classification				IEC 60695-11-10 -20			
0.0295 in	НВ						
0.0591 in	НВ						
0.118 in	НВ						
L	Dry	Conditioned	Unit	Test Method			
RTI Str				UL 746			
0.0295 in	149		°F				
0.0591 in	149		°F				
RTI Imp				UL 746			
0.0295 in	149		°F				
0.0591 in	149		°F				
0.118 in	149		°F				
RTI Elec				UL 746			
0.0295 in	149		°F				
0.0591 in	149		°F				
0.118 in	149		°F				
njection	Dry Unit						
Drying Temperature	176 °F						
Drying Time	2.0 to 4.0 hr						
Suggested Max Moisture	< 0.20 %						
Processing (Melt) Temp		500 to 536 °F					
Melt Temperature, Optimum	518 °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.

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. CAUTION: Do not use DuPont materials in medical application involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications ... H-50102-3.

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