

DuPont™ Zytel®

nylon resin

Zytel® 73G30HSL NC010

Zytel® 73G30HSL NC010 is a 30% glass fiber reinforced, heat stabilized polyamide 6 resin for injection molding.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA6-GF30	
Part Marking Code	ISO 11469		>PA6-GF30<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	185 (26.8)	115 (16.7)
Strain at Break	ISO 527	%	3.5	6
Tensile Modulus	ISO 527	MPa (kpsi)	9700 (1410)	5800 (840)
Tensile Creep Modulus	ISO 899	MPa (kpsi)		
1h				6190 (898)
1000h				4630 (671)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²		
-30°C (-22°F)			10	21
23°C (73°F)			16	23
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²		
-30°C (-22°F)			80	84
23°C (73°F)				100

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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Zytel® 73G30HSL NC010

Property	Test Method	Units	Value	
			DAM	50%RH
Thermal				
Deflection Temperature 0.45MPa	ISO 75f	°C (°F)	220 (428)	
1.80MPa			210 (410)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	221 (430)	
CLTE, Normal 23 - 55°C (73 - 130°F)	ISO 11359-1/-2	E-4/C (E-4/F)	1.02 (0.57)	
CLTE, Parallel 23 - 55°C (73 - 130°F)	ISO 11359-1/-2	E-4/C (E-4/F)	0.22 (0.12)	
Vicat Softening Temperature 50N	ISO 306	°C (°F)	215 (419)	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1360 (1.36)	
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH			1.9	
Saturation, immersed			6.3	
Molding Shrinkage	ISO 294-4	%		
Normal, 2.0mm			0.6	
Parallel, 2.0mm			0.2	
Processing				
Melt Temperature Range		°C (°F)	260-280 (500-535)	
Melt Temperature Optimum		°C (°F)	270 (520)	
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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