DuPont™ Zytel®

nylon resin

Zytel® 70G25HSLR NC010

Zytel® 70G25HSLR NC010 is a 25% glass fiber reinforced, heat stabilized, hydrolysis resistant polyamide 66 resin for injection molding.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA66-GF25	
Part Marking Code	ISO 11469		>PA66-GF25<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	180 (26.1)	120 (17.4)
Strain at Break	ISO 527	%	3	7
Tensile Modulus	ISO 527	MPa (kpsi)	8400 (1200)	6100 (880)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2		
-30°C (-22°F)			7	7
23°C (73°F)			10	11
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2		
-30°C (-22°F)			60	45
23°C (73°F)			60	80
Thermal				
Deflection Temperature	ISO 75f	°C (°F)		
0.45MPa			261 (502)	
1.80MPa			252 (486)	
Melting Temperature	ISO 11357-1/-3	°C (°F)		
10°C/min			262 (504)	

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
Thermal				
CLTE, Normal	ISO 11359-1/-2	E-4/C (E-4/F)		
23 - 55°C (73 - 130°F)			1.12 (0.63)	
CLTE, Parallel	ISO 11359-1/-2	E-4/C (E-4/F)		
23 - 55°C (73 - 130°F)			0.33 (0.18)	
Vicat Softening Temperature	ISO 306	°C (°F)		
50N			257 (495)	
Electrical				
Relative Permittivity	IEC 60250			
1E2 Hz			3.6	
Volume Resistivity	IEC 60093	ohm m	1E13	
Dissipation Factor	IEC 60250	E-4		
1E2 Hz			70	
Flammability				
Flammability Classification	IEC 60695-11-10			
1.5mm			HB	
Flammability Classification	UL94			
1.5mm			HB	
High Amperage Arc Ignition Resistance	UL 746A	arcs		
1.5mm			120	
3.0mm			120	
Hot Wire Ignition	UL 746A	s		
1.5mm			7	
3.0mm			30	

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			DAM	50%RH
Temperature Index				
RTI, Electrical	UL 746B	°C		
0.71mm			105	
1.5mm			120	
3.0mm			120	
RTI, Impact	UL 746B	°C		
1.5mm			95	
3.0mm			95	
RTI, Strength	UL 746B	°C		
1.5mm			105	
3.0mm			110	
Other				
Density	ISO 1183	kg/m^3 (g/cm^3)	1320 (1.32)	
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH			2	
Saturation, immersed			6.4	
Molding Shrinkage	ISO 294-4	%		
Normal, 2.0mm			1.1	
Parallel, 2.0mm			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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