



# Zytel®

nylon resin

## Zytel® 80G33HS1L NC010

33% Glass Reinforced Heat Stabilized & Lubricated Nylon 66 resin with outstanding impact resistance developed using DuPont Super Tough technology.

Property	Test Method	Units	Value	
			50%RH	DAM
<b>Mechanical</b>				
Stress at Break 5mm/min	ISO 527-1/2	MPa	94	140
Strain at Break 5mm/min	ISO 527-1/2	%	4,5	3,5
Tensile Modulus 1mm/min	ISO 527-1/2	MPa	5800	8500
Notched Izod Impact -30C 23C	ISO 180/1A	kJ/m2	15	15
			24	20
Notched Charpy Impact -30C 23C	ISO 179/1eA	kJ/m2	16	16
			26	20
Unnotched Charpy Impact -30C 23C	ISO 179/1eU	kJ/m2	99	100
			95	90
<b>Thermal</b>				
Deflection Temperature 0,45MPa 1,80MPa	ISO 75-1/2	°C		259
				245
CLTE, Flow	ASTM E 831	E-4/C		0,25
CLTE, Transverse	ASTM E 831	E-4/C		1,5
Melting Temperature 10C/min	ISO 3146C	°C		262
Vicat Softening Temperature 50N	ISO 306	°C		244

Properties measured at 23°C unless otherwise stated.

Please refer to the Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

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Property	Test Method	Units	Value	
			50%RH	DAM
<b>Electrical</b>				
Surface Resistivity	IEC 93	ohm		1E12
Relative Permittivity	IEC 250			
1E6 Hz			4,3	3,6
Volume Resistivity	IEC 93	ohm cm	1E11	>1E15
Dissipation Factor	IEC 250	E-4		
1E6 Hz			600	130
<b>Flammability</b>				
Flammability at 1.6mm Nominal UL94	UL94			HB
UL94 Rating at Min. Thickness	UL94			HB
UL94 Min. Thickness Tested	UL94	mm		0,8
<b>Other</b>				
Density	ISO 1183	kg/m3		1330
Humidity Absorption	ISO 62, Similar to	%		1,5
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH				4,5
Mould Shrinkage	ISO 2577	%		
Flow				0,2
<b>Processing</b>				
Melt Temperature Range		°C		290-305
Mould Temperature Range		°C		65-120
Drying Time, Dehumidified Dryer		h		2-4
Drying Temperature		°C		80

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