



# Zytel®

nylon resin

## Zytel® 82G33L NC010 Glass Reinforced Nylon Copolymer Resin

Zytel® 82G33L NC010 is a 33% glass reinforced toughened nylon 66/6 copolymer resin. This resin was developed for applications requiring strength, stiffness and impact resistance along with good surface.

Property	Test Method	Units	Value	
			DAM	50%RH
<b>Mechanical</b>				
Tensile Strength	ASTM D 638	MPa (kpsi)	153 (22.2)	110 (16.0)
Elongation at Break	ASTM D 638	%	4	8
Flexural Modulus	ASTM D 790	MPa (kpsi)	7585 (1100)	4480 (650)
Flexural Strength	ASTM D 790	MPa (kpsi)	230 (33.5)	
Notched Izod Impact	ASTM D 256	J/m (ft lb/in)	225 (4.2)	288 (5.4)
Unnotched Izod Impact	ASTM D 4812	J/m (ft lb/in)	1330 (25)	1600 (30)
<b>Thermal</b>				
Heat Deflection Temperature 1.8MPa (264psi)	ASTM D 648	°C (°F)	220 (428)	
Melting Point	ASTM D 3418	°C (°F)	233 (451)	
<b>Flammability</b>				
UL94 Rating at Min. Thickness	UL94		HB	
UL94 Min. Thickness Tested	UL94	mm (in)	0.81 (0.032)	
<b>Other</b>				
Specific Gravity	ASTM D 792		1.34	
Mold Shrinkage		%		
Flow, 3.2mm (0.125in)			0.2	
Transverse, 3.2mm (0.125in)			0.9	
<b>Processing</b>				
Melt Temperature Range		°C (°F)	280-295 (540-560)	
Mold Temperature Range		°C (°F)	65-120 (150-250)	
Processing Moisture Content		%	<0.20	

Mechanical properties measured at 23°C (73°F) unless otherwise stated.

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.

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The data listed here fall within the normal range of product properties but they should not be used to establish specification limits nor used alone as the basis of design.

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CAUTION: Do not use in medical applications involving permanent implantation in the human body.

For other medical applications, see "DuPont Medical Caution Statement", H-50102.

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