#### **Product Information**

# **DuPont<sup>™</sup> Zytel<sup>®</sup>**

nylon resin

## **Zytel® 72G33W NC010**

Zytel\* 72G33W NC010 is a 33% glass fiber reinforced polyamide 66/6 copolymer resin with improved weatherability.

Property Property	Test Method	Units	Value DAM
Identification			
Resin Identification	ISO 1043		PA66/6-GF33
Part Marking Code	ISO 11469		>PA66/6-GF33<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	200 (29.0)
Strain at Break	ISO 527	%	3.5
Tensile Modulus	ISO 527	MPa (kpsi)	10000 (1450)
Flexural Modulus	ISO 178	MPa (kpsi)	9500 (1380)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	
-40°C (-40°F)			12
23°C (73°F)			14
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	95
Thermal			
Deflection Temperature	ISO 75f	°C (°F)	
0.45MPa			230 (446)
1.80MPa			220 (428)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			235 (455)

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



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Property	Test Method	Units	Value
			DAM
Thermal			
CLTE, Normal	ISO 11359-1/-2	E-4/C (E-4/F)	
-40 - 23°C (-40 - 73°F)			0.69 (0.38)
23 - 55°C (73 - 130°F)			1.04 (0.58)
55 - 160°C (130 - 320°F)			1.31 (0.73)
CLTE, Parallel	ISO 11359-1/-2	E-4/C (E-4/F)	
-40 - 23°C (-40 - 73°F)			0.23 (0.13)
23 - 55°C (73 - 130°F)			0.14 (0.08)
55 - 160°C (130 - 320°F)			0.10 (0.06)
Other			
Density	ISO 1183	$kg/m^3 (g/cm^3)$	1390 (1.39)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.6
Parallel, 2.0mm			0.2
Processing			
Melt Temperature Range		°C (°F)	270-290 (520-550)
Melt Temperature Optimum		°C (°F)	280 (535)
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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