



Zytel®

nylon resin

Zytel® 101L NC010 Nylon Resin

Zytel® 101L NC010 is a lubricated molding grade PA 66 resin.

Property	Test Method	Units	Value	
			DAM	50%RH
Mechanical				
Tensile Strength	ASTM D 638	MPa (kpsi)	83 (12.0)	77 (11.2)
Tensile Strength at Yield	ASTM D 638	MPa (kpsi)	83 (12.0)	58 (8.5)
Elongation at Break	ASTM D 638	%	60	>300
Elongation at Yield	ASTM D 638	%	5	25
Poisson's Ratio			0.41	
Flexural Modulus	ASTM D 790	MPa (kpsi)	2830 (410)	1210 (175)
Notched Izod Impact	ASTM D 256	J/m (ft lb/in)	53 (1.0)	112 (2.1)
Thermal				
Heat Deflection Temperature 0.45MPa (66psi)	ASTM D 648	°C (°F)	210 (410)	
1.8MPa (264psi)			65 (149)	
CLTE, Flow	ASTM D 696	E-4/K (E-4/F)	0.7 (0.4)	
Melting Point	ASTM D 3418	°C (°F)	262 (504)	
Electrical				
Volume Resistivity	ASTM D 257	ohm cm	1 E15	1 E13
Dielectric Constant	ASTM D 150			
1E2 Hz			4.0	8.0
1E3 Hz			3.9	7.0
1E6 Hz			3.6	4.6
Dissipation Factor	ASTM D 150			
1E2 Hz			0.01	0.20
1E3 Hz			0.02	0.20
1E6 Hz			0.02	0.10
Flammability				
UL94 Rating at Min. Thickness	UL94		V-2	
UL94 Min. Thickness Tested	UL94	mm (in)	0.71 (0.028)	

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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Property	Test Method	Units	Value	
			DAM	50%RH
Other				
Hardness, Rockwell	ASTM D 785			
Scale M			79	59
Scale R			121	108
Taber Abrasion	ASTM D 1044	mg		
CS-17 Wheel, 1kg, 1000 cycles				7
Water Absorption	ASTM D 570	%		
Immersion 24hr			1.2	
Saturation			8.5	
Specific Gravity	ASTM D 792		1.14	
Mold Shrinkage		%		
Flow, 3.2mm (0.125in)			1.5	
Processing				
Melt Temperature Range		°C (°F)	280-305 (535-580)	
Mold Temperature Range		°C (°F)	40-95 (100-200)	
Processing Moisture Content		%	<0.2	

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