Zytel®

nylon resin Zytel® 101F NC010

Lubricated Nylon Resin

Zytel® 101F NC010 is an internally lubricated PA 66 resin that has been developed for fast cycles and high productivity.

Property Test Method Units Value

DAM 50%RH

Mechanical

Tensile Strength ASTM D 638 MPa (kpsi) 83 (12.0) 64 (9.3)

Tensile Strength at Yield ASTM D 638 MPa (kpsi) 83 (12.0)

Elongation at Break ASTM D 638 % 50 >300

Elongation at Yield ASTM D 638 % 4

Poisson's Ratio 0.4

Flexural Modulus ASTM D 790 MPa (kpsi) 2800 (410) 1210 (175)

Notched Izod Impact ASTM D 256 J/m (ft lb/in) 53 (1.0) 105 (2)

Thermal

Heat Deflection Temperature ASTM D648 °C (°F)

0.45MPa (66psi) 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

1E6 Hz 0.02

Surface Resistivity ASTM D 257 ohm 1 E14 Volume Resistivity ASTM D 257 ohm cm 1 E15 Dielectric Strength, Short Time ASTM D 149 kV/mm (V/mil) 3.2mm (0.125in) 16.5 (420) 1.6mm (0.063in) 23.2 (590) Dielectric Constant ASTM D 150 1E2 Hz 4.1 1E3 Hz 4.0 1E6 Hz 3.7 Dissipation Factor ASTM D 150 1E2 Hz 0.01 1E3 Hz 0.02

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

The DuPont Company assumes no obligation or liability for any advice furnished by it or for results obtained with respect to this information. All such advice

is given and accepted at the buyer's risk. The disclosure of information herein is not a license to operate under, or a

recommendation to infringe, any patent of DuPont

or others. DuPont warrants that the use or sale of any material which is described herein and is offered for sale by DuPont does not infringe any patent covering the

material itself, but does not warrant against infringement by reason of the use thereof in combination with the other materials or in the operation of any process.

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.

Dial DuPont First (800) 441-0575 🛛 Automotive Inquiries (800) 533-1313

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QMFZ2 Component - Plastics Wednesday, November 08, 2000

E I DUPONT DE NEMOURS & CO INC

DUPONT POLYMERS, ENGINEERING POLYMERS

NYLON RESINS PO BOX 80713, CHESTNUT RUN PLAZA WILMINGTON DE 19880 Material Designation: 101(f1)+, 101F(f1)+, 101L(f1)+, E101(f1)+, E101L(f1), 132F(f1)+, 133L(f1)+, 135F(f1)+

Product Description: Polyamide 66 (PA66), designated "Zytel" furnished as pellets.

	Min. Thick	Flame			RTI	RTI	RTI	IEC	IEC
Color	mm	Class	HWI	HAI	Elec	Imp	Str	GWIT	GWFT
ALL	0.71	V-2	4	0	130	75	85	725	960
	1.5	V-2	3	0	130	75	85	750	850
	3.0	V-2	2	0	130	75	85	800	950
	6.0	V-2	2	0	130	75	85	-	-
			CTI:0	HVTR:0		D495:6		IEC BP:-	

(f1) -Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

+ - Virgin and Regrind from 1% to 50% by weight inclusive, have the same basic material characteristics.

NOTE - (1) Material designations that are color pigmented may be followed by suffix letters and numbers.

Report Date: 07/29/1996 Underwriters Laboratories Inc ®

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UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the

combination is determined by ULI.