DuPont™ Zytel® FG101 NC010 NYLON RESIN

Product Information

Zytel® FG101 NC010 is a general purpose polyamide 66 resin for injection molding and extrusion. It has been developed for consideration into applications such as parts for the food industry.

FOOD CONTACT

This product is manufactured according to Good Manufacturing Practice (GMP) principles and generally accepted in food contact applications in Europe and the USA when meeting applicable use conditions. For details, individual compliance statements are available from your DuPont representative.

General Information Yalue Unit Test Standard	serieutive.			
Reclogical properties	al information	Value	Unit	Test Standard
Rheological properties dry / cond Unit Test Standard Viscosity number 150 ¹¹ / * cm³/g ISO 307, 1157, 1628 Molding shrinkage, normal 1.4 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.4 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.4 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.4 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.4 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.5 Suffuric acid 9% Mechanical properties dry / cond Unit Test Standard Test Iso 2007-1/-2 Molding shrinkage, normal 1.4 / - % ISO 297-1/-2 Molding stress 82 / 55 MPa ISO 527-1/-2 Yield stress 82 / 55 MPa ISO 527-1/-2 Yield strain at break 25 / > 50 % ISO 527-1/-2 Yield strain at break 25 / > % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 527-1/-2 Yield strain at Break, 23 °C, 50mm/min 4-5 / - % ISO 899-1 ISO 799/feU Tay F S-22 °F S-5 / 5 / S-5	in Identification		-	ISO 1043
Viscosity number	t Marking Code	PA66	-	ISO 11469
Molding shrinkage, parallel	ogical properties		Unit	Test Standard
Molding shrinkage, parallel		150 ^[1] / *	cm³/g	ISO 307, 1157, 1628
1: Sulfuric acid 96%		1.4 / -	%	
Mechanical properties dry / cond Unit Test Standard Tensile Modulus 3100 / 1400 MPa ISO 527-1/-2 Yield stress 82 / 55 MPa ISO 527-1/-2 Yield strain 4.5 / 25 % ISO 527-1/-2 Nominal strain at break 25 / >50 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min 4-5 / - % ISO 527-1/-2 Flexural Modulus 2800 / 1200 MPa ISO 178 Tensile creep modulus ISO 899-1 ISO 899-1 1h	ding shrinkage, normal	1.4 / -	%	ISO 294-4, 2577
Tensile Modulus	uric acid 96%			
Tensile Modulus	nnical properties	dry / cond	Unit	Test Standard
Yield stress 82 / 55 MPa ISO 527-1/-2 Yield strain 4.5 / 25 % ISO 527-1/-2 Nominal strain at break 25 / >50 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min 4-5 / - % ISO 527-1/-2 Flexural Modulus 2800 / 1200 MPa ISO 178 Tensile creep modulus * / 1200 MPa ISO 899-1 1h * / 1200 MPa MPa 1000h * / 700 MPa ISO 179/1eU 73°F N / N KJ/m² ISO 179/1eU 73°F 400 / N KJ/m² ISO 179/1eA 73°F 5.5 / 15 KJ/m² ISO 179/1eA 73°F 5.5 / 15 KJ/m² ISO 179/1eA 73°F 5.5 / 15 KJ/m² ISO 180/1A 73°F 5.5 / 12 KJ/m² <t< td=""><td>sile Modulus</td><td></td><td>MPa</td><td>ISO 527-1/-2</td></t<>	sile Modulus		MPa	ISO 527-1/-2
Yield strain 4.5 / 25 % ISO 527-1/-2 Nominal strain at break 25 / >50 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min 4-5 / . % ISO 527-1/-2 Flexural Modulus 2800 / 1200 MPa ISO 178 Tensile creep modulus ISO 899-1 Ih 1 1000h MPa ISO 899-1 ISO 179/1eU 150 899-1 ISO 179/1eU 150 179/1eU 73°F ISO 179/1eU 150 179/1eU 73°F 73°F 150 179/1eU 73°F 150 179/1eU 73°F 74°C 75°C 150 179/1eU 73°F 75°C 150 180/1d 75°C 150 180/1d 75°C 150 180/1d 75°C 150 180/1d	d stress			
Strain at Break, 23°C, 50mm/min 4-5 / - % ISO 527-1/-2 Flexural Modulus 2800 / 1200 MPa ISO 899-1 Tensile creep modulus ISO 899-1 ISO 899-1 1h * / 1200 MPa 1000h * / 700 MPa Charpy impact strength ISO 179/1eU 73°F N / N kJ/m² -22°F 400 / N kJ/m² Charpy notched impact strength ISO 179/1eA 73°F 5.5 / 15 kJ/m² 1zod notched impact strength ISO 180/1A 73°F 5.5 / 12 kJ/m² 1zod notched impact strength ISO 180/1A 73°F 5.5 / 12 kJ/m² -22°F 5.5 / - kJ/m² 1zod impact strength ISO 180/1A 73°F 5.5 / - kJ/m² 1zod impact strength ISO 180/1U 73°F N / N kJ/m² 1zod impact strength ISO 180/1U 73°F N / N kJ/m² 1zod impact strength IS	d strain		%	ISO 527-1/-2
Flexural Modulus	ninal strain at break	25 / >50	%	ISO 527-1/-2
Tensile creep modulus	ain at Break, 23°C, 50mm/min	4-5 / -	%	ISO 527-1/-2
1h * / 1200 MPa 1000h * / 700 MPa Charpy impact strength ISO 179/1eU 73°F N / N kJ/m² -22°F 400 / N kJ/m² Charpy notched impact strength ISO 179/1eA 73°F 5.5 / 15 kJ/m² -22°F 4.5 / 3 kJ/m² 1zod notched impact strength ISO 180/1A 73°F 5.5 / 12 kJ/m² -22°F 5.5 / - kJ/m² -22°F 5.5 / - kJ/m² 1zod impact strength ISO 180/1U ISO 180/1U 73°F N / N kJ/m² 1zod impact strength ISO 180/1U ISO 180/1U 73°F N / N kJ/m² 1zod impact strength ISO 180/1U ISO 180/1U 73°F N / N kJ/m² 1zod impact strength ISO 180/1U ISO 180/1U 73°F N / N kJ/m² ISO 180/1U 1zod impact strength ISO 180/1U ISO 180/1U 70°F 20°F N / N KJ/m² ISO 2039-1	kural Modulus	2800 / 1200	MPa	ISO 178
1000h	sile creep modulus			ISO 899-1
Charpy impact strength N / N kJ/m² ISO 179/1eU 73°F - 22°F A00 / N kJ/m² ISO 179/1eA Charpy notched impact strength ISO 179/1eA 73°F - 22°F 4.5 / 3 kJ/m² Izod notched impact strength ISO 180/1A 73°F - 22°F 5.5 / - kJ/m² ISO 180/1A -40°F 5.5 / - kJ/m² ISO 180/1U Izod impact strength ISO 180/1U ISO 180/1U 73°F N / N kJ/m² ISO 180/1U -22°F 300 / - kJ/m² ISO 180/1U Ball indentation hardness, H 358/30 180 / 85 kJ/m² ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa kJ CO239-1 ISO 2039-1 Thermal properties dry / cond klting temperature, 18°F/min klting temperature, 18°F/mi	h .	* / 1200	MPa	
73°F22°F N / N kJ/m² Charpy notched impact strength ISO 179/1eA 73°F22°F 5.5 / 15 kJ/m² -22°F 4.5 / 3 kJ/m² ISO 180/1A 73°F22°F 5.5 / kJ/m² ISO 180/1A -40°F 5.5 / kJ/m² ISO 180/1U 1zod impact strength 7 S.5 / kJ/m² ISO 180/1U 1zod impact strength 8 ISO 180/1U ISO 180/1U 73°F N N N KJ/m² ISO 180/1U -22°F 300 / kJ/m² ISO 2039-1 Ball indentation hardness, H 358/30 I80 / 85 MPa ISO 2039-1 ISO 2039-1 Ball indentation hardness, H 961/30 I60 /* MPa ISO 2039-1 ISO 2039-1 Thermal properties dry cond Wnit Test Standard Melting temperature, 18°F/min 262 /* °C ISO 11357-1/-3 ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - °C ISO 11357-1/-2 ISO 75-1/-2 Temp. of deflection under load 260 psi 70 /* °C ISO 75-1/-2 65 psi 190 /* °C ISO 306 Vicat softening temperature, 90°F/h, 11 lbf 240 /* °C ISO 306 Coeff. of linear therm. expansion, parallel 100 /* E-6/K ISO 11359-1/-2 ISO 11359-1/-2 Thermal conductivity of melt 100 0.16 W/(m K) - W/(m K)	000h	* / 700	MPa	
-22°F Charpy notched impact strength 73°F -22°F	rpy impact strength			ISO 179/1eU
Charpy notched impact strength ISO 179/1eA 73 °F 5.5 / 15 kJ/m² -22 °F 4.5 / 3 kJ/m² Izod notched impact strength ISO 180/1A 73 °F 5.5 / 12 kJ/m² -22 °F 5.5 / - kJ/m² -40 °F 5.5 / - kJ/m² Izod impact strength ISO 180/1U 73 °F N / N kJ/m² -22 °F 300 / - kJ/m² Ball indentation hardness, H 358/30 180 / 85 MPa ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature, 18 °F/min 262 / * °C ISO 11357-1/-3 Glass transition temperature, 18 °F/min 60 / - °C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 ISO 306 65 psi 70 / * °C 65 psi 190 / * °C 65 psi 190 / * °C Vicat	3°F	N/N	kJ/m²	
73°F 5.5 / 15 kJ/m² -22°F 4.5 / 3 kJ/m² Izod notched impact strength ISO 180/1A 73°F 5.5 / 12 kJ/m² -22°F 5.5 / - kJ/m² -40°F 5.5 / - kJ/m² Izod impact strength ISO 180/1U 73°F N / N kJ/m² -22°F 300 / - kJ/m² Ball indentation hardness, H 358/30 180 / 85 MPa ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - °C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 °C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 °C ISO 306 65 psi 190 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / *	22°F	400 / N	kJ/m²	
120 notched impact strength	rpy notched impact strength			ISO 179/1eA
Isod notched impact strength	3°F	5.5 / 15	kJ/m²	
73 °F 5.5 / 12 kJ/m² -22 °F 5.5 / - kJ/m² -40 °F 5.5 / - kJ/m² Izod impact strength ISO 180/1U 73 °F N / N kJ/m² Ball indentation hardness, H 358/30 180 / 85 MPa ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature, 18 °F/min 262 / * °C ISO 11357-1/-3 Glass transition temperature, 18 °F/min 60 / - °C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C Vicat softening temperature, 90 °F/h, 11 lbf 240 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K)	22°F	4.5 / 3	kJ/m²	
-22°F	notched impact strength			ISO 180/1A
-40°F 5.5 / - kJ/m² Izod impact strength ISO 180/1U 73°F N / N kJ/m² -22°F 300 / - kJ/m² Ball indentation hardness, H 358/30 180 / 85 MPa ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - ° C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * ° C 65 psi 190 / * ° C Vicat softening temperature, 90°F/h, 11 lbf 240 / * ° C Vicat softening temperature, expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -	3°F	5.5 / 12	kJ/m²	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	22°F	5.5 / -	kJ/m²	
73°F N / N kJ/m² -22°F 300 / - kJ/m² Ball indentation hardness, H 358/30 180 / 85 MPa ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - °C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 ISO 75-1/-2 260 psi 70 / * °C 65 psi 190 / * °C Vicat softening temperature, 90°F/h, 11 lbf 240 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -	40°F	5.5 / -	kJ/m²	
-22°F 300 / - kJ/m² Ball indentation hardness, H 358/30 180 / 85 MPa ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - ° C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * ° C 65 psi 190 / * ° C Vicat softening temperature, 90°F/h, 11 lbf 240 / * ° C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -	d impact strength			ISO 180/1U
Ball indentation hardness, H 358/30 180 / 85 MPa ISO 2039-1 Ball indentation hardness, H 961/30 160 / * MPa ISO 2039-1 Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - ° C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * ° C 65 psi 190 / * ° C Vicat softening temperature, 90°F/h, 11 lbf 240 / * ° C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -	3°F	N/N	kJ/m²	
Ball indentation hardness, H 961/30 Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - ° C ISO 11357-1/-2 Temp. of deflection under load 1SO 75-1/-2 260 psi 70 / * ° C 65 psi 190 / * ° C Vicat softening temperature, 90°F/h, 11 lbf 240 / * ° C Vicat softening temperature, expansion, parallel Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K)		300 / -	kJ/m²	
Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - ° C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * ° C 65 psi 190 / * ° C Vicat softening temperature, 90°F/h, 11 lbf 240 / * ° C Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -	indentation hardness, H 358/30		MPa	
Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Glass transition temperature, 18°F/min 60 / - °C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 190 / * °C Vicat softening temperature, 90°F/h, 11 lbf 240 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -	indentation hardness, H 961/30	160 / *	MPa	ISO 2039-1
Glass transition temperature, 18°F/min 60 / - °C ISO 11357-1/-2 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 190 / * °C Vicat softening temperature, 90°F/h, 11 lbf 240 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -				
Temp. of deflection under load $ \begin{array}{ccccccccccccccccccccccccccccccccccc$		262 / *		
260 psi 70 /* °C 65 psi 190 /* °C Vicat softening temperature, 90°F/h, 11 lbf 240 /* °C ISO 306 Coeff. of linear therm. expansion, parallel 100 /* E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 /* E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -		60 / -	°C	
65 psi 190 / * °C Vicat softening temperature, 90°F/h, 11 lbf 240 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K) -				ISO 75-1/-2
Vicat softening temperature, 90°F/h, 11 lbf240 / *°CISO 306Coeff. of linear therm. expansion, parallel100 / *E-6/KISO 11359-1/-2Coeff. of linear therm. expansion, normal110 / *E-6/KISO 11359-1/-2Thermal conductivity of melt0.16W/(m K)-				
Coeff. of linear therm. expansion, parallel100 / *E-6/KISO 11359-1/-2Coeff. of linear therm. expansion, normal110 / *E-6/KISO 11359-1/-2Thermal conductivity of melt0.16W/(m K)-				
Coeff. of linear therm. expansion, normal 110 / * E-6/K ISO 11359-1/-2 Thermal conductivity of melt 0.16 W/(m K)				
Thermal conductivity of melt 0.16 W/(m K) -				
				ISO 11359-1/-2
Cook host conscituted molt				-
				-
Eff. thermal diffusivity 5E-8 m ² /s -	thermal diffusivity	5E-8	m²/s	-
	c. heat capacity of melt	2790	J/(kg K)	-

Revised: 2018-06-25 Page: 1 of 5

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North America Asia Pacific Europe/Middle East/Africa

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DuPont™ Zytel® FG101 NC010 NYLON RESIN

RTI, electrical, 30mil	130 / *	°C	UL 746B
RTI, impact, 30mil	75	°C	UL 746B
RTI, strength, 30mil	85	°C	UL 746B
Flammability	dry / cond	Unit	Test Standard
Burning Behav. at 60mil nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.71 / *	mm	IEC 60695-11-10
Oxygen index	28 / *	%	ISO 4589-1/-2
FMVSS Class	DNI	-	ISO 3795 (FMVSS 302)
Electrical properties	dry / cond	Unit	Test Standard
Relative permittivity			IEC 62631-2-1
100Hz	3.8 / 6	-	
1MHz	3.5 / 4	_	
Dissipation factor			IEC 62631-2-1
100Hz	80 / 2100	E-4	120 02031 2 1
1MHz	180 / 750	E-4	
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
Electric strength	32 / 28	kV/mm	IEC 60243-1
Other properties	dry / cond	Unit	Test Standard
Humidity absorption, 80mil	2.6 / *	%	Sim. to ISO 62
Water absorption, 80mil	8.5 / *	% %	Sim. to ISO 62
Density	1140 / -	kg/m ³	ISO 1183
Density of melt	980	kg/m³	-
VDA Properties	dry / cond	Unit	Test Standard
Emission of organic compounds	5	µgC/g	VDA 277
Odor test	3	class	VDA 277
Fogging, F-value (refraction)	99 / *	%	ISO 6452
Fogging, G-value (condensate)	0.1 / *	mg	ISO 6452
Injection	dry / cond	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥80	°C	
Drying Time, Dehumidified Dryer	2 - 4	h	
Processing Moisture Content	≤0.2	<u> </u>	
Melt Temperature Optimum	290	~°C	
Min. melt temperature	280	°C	
Max. melt temperature	300	°C	
Max. screw tangential speed	0.4 / *	m/s	
Mold Temperature Optimum	70	°C	
Min. mold temperature	50	°C	
Max. mold temperature	90	°C	
Hold pressure range	50 - 100	MPa	
Hold pressure time	4	s/mm	-
Ejection temperature	190	°C	
Extrusion	Value	Unit	- Test Standard
Drying Temperature	≤80	°C	rest standard
Drying Time, Dehumidified Dryer	≤o∪ 4 - 6	h	-
Melt Temperature Optimum	285	°C	-
Melt Temperature Optimum Melt Temperature Range	275 - 290	°C	-
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Characteristics			
Processing	 Injection Molding 		
Delivery form	 Pellets 		
Regional Availability	 North America 	 Asia Pacific 	 Near East/Africa
	 Europe 	 South and Central America 	 Global

Revised: 2018-06-25 Page: 2 of 5

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DuPont™ Zytel® FG101 NC010 **NYLON RESIN**

Injection molding

POSTPROCESSING

Annealing: 30min at 200°C

Revised: 2018-06-25 Page: 3 of 5

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DuPont™ Zytel® FG101 NC010 NYLON RESIN

Chemical Media Resistance

Δcids

Acetic Acid (5% by mass) (23°C)

Citric Acid solution (10% by mass) (23°C)

Lactic Acid (10% by mass) (23°C)

Hydrochloric Acid (36% by mass) (23°C)

Nitric Acid (40% by mass) (23°C)

Sulfuric Acid (38% by mass) (23°C)

Suttuite Acid (50% by mass) (25 C

Sulfuric Acid (5% by mass) (23°C)

Chromic Acid solution (40% by mass) (23°C)

Bases

Sodium Hydroxide solution (35% by mass) (23°C)

Sodium Hydroxide solution (1% by mass) (23°C)

Ammonium Hydroxide solution (10% by mass) (23°C)

Alcohols

✓ Isopropyl alcohol (23°C)

✓ Methanol (23°C)

✓ Ethanol (23°C)

Hydrocarbons

√ n-Hexane (23°C)

√ Toluene (23°C)

√ iso-Octane (23°C)

Ketones

✓ Acetone (23°C)

Ethers

Diethyl ether (23°C)

Mineral oils

SAE 10W40 multigrade motor oil (23°C)

SAE 10W40 multigrade motor oil (130°C)

SAE 80/90 hypoid-gear oil (130°C)

Insulating Oil (23°C)

Standard Fuels

√ ISO 1817 Liquid 1 - E5 (60°C)

ISO 1817 Liquid 2 - M15E4 (60°C)

/ ISO 1817 Liquid 3 - M3E7 (60°C)

✓ ISO 1817 Liquid 4 - M15 (60°C)

Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)

✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

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Page: 4 of 5

DuPont™ Zytel® FG101 NC010 **NYLON RESIN**

Diesel fuel (pref. ISO 1817 Liquid F) (23°C)



Diesel fuel (pref. ISO 1817 Liquid F) (90°C)

Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)

Salt solutions

Sodium Chloride solution (10% by mass) (23°C)

Sodium Hypochlorite solution (10% by mass) (23°C)

Sodium Carbonate solution (20% by mass) (23°C) Sodium Carbonate solution (2% by mass) (23°C)



Zinc Chloride solution (50% by mass) (23°C)

Ethyl Acetate (23°C)

Hydrogen peroxide (23°C)



DOT No. 4 Brake fluid (130°C)



Ethylene Glycol (50% by mass) in water (108°C)



1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C)



50% Oleic acid + 50% Olive Oil (23°C)



Water (23°C)

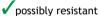


Water (90°C)



Phenol solution (5% by mass) (23°C)

Symbols used:



Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).



not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents. Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont customer representative and read Medical Caution H-50103-5.

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Revised: 2018-06-25 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

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Page: 5 of 5