Product Information

#### ISO 1874-PA66-MGH, 14-050, GF13

Common features of Zytel® nylon resin include mechanical and physical properties such as high mechanical strength, excellent balance of stiffness and toughness, good high temperature performance, good electrical and flammability properties, good abrasion and chemical resistance. In addition, Zytel® nylon resins are available in different modified and reinforced grades to create a wide range of products with tailored properties for specific processes and end-uses. Zytel® nylon resin, including most flame retardant grades, offer the ability to be coloured.

The good melt stability of Zytel® nylon resin normally enables the recycling of properly handled production waste. If recycling is not possible, DuPont recommends, as the preferred option, incineration with energy recovery (-31kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Zytel® nylon resin typically is used in demanding applications in the automotive, furniture, domestic appliances, sporting goods and construction industry.

Zytel® 79G13HSL NC010 is a 13 % glass reinforced, heat stabilized, lubricated slightly toughened polyamide 66 for injection molding. It has improved impact resistance.

General information	Value	Unit	Test Standard
Resin Identification	PA66-IGF13	-	ISO 1043
Part Marking Code	PA66-IGF13		ISO 11469
Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.5 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / -	<u> </u>	ISO 294-4, 2577
	dry / cond	Munit	Test Standard
Mechanical properties Tensile Modulus	5000 / 3700	MPa	ISO 527-1/-2
Stress at break	120 / 70	MPa MPa	ISO 527-1/-2
Strain at break	4 / 10	%	ISO 527-1/-2
Tensile creep modulus	* / 2/00		ISO 899-1
1h	* / 3600	MPa	
1000h	* / 3200	MPa	
Charpy impact strength			ISO 179/1eU
73°F	70 / 60	kJ/m²	
-22°F	60 / 50	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
73°F	8 / 14	kJ/m²	
-22°F	6/6	kJ/m²	
Izod notched impact strength			ISO 180/1A
73°F	8/9	kJ/m²	
-22°F	6 / 4	kJ/m²	
Hardness, Rockwell, M-scale	90 / 74	-	ISO 2039-2
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
260 psi	242 / *	°C	
65 psi	260 / *	°C	
Vicat softening temperature, 90°F/h, 11 lbf	239 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	130 / *	E-6/K	ISO 11359-1/-2
Spec. heat capacity solid	1130	J/(kg K)	- DS
Spec. heat capacity of melt	2140	J/(kg K)	-
RTI, electrical	-		UL 746B
30mil	105 / *	°C	
60mil	120 / *	°Č	
120mil	120	°Č	
	120	~	

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Asia Pacific

North America



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RTI, impact   UL 7468     30mil   65   'C     60mil   105 /*   'C     120mil   105 'C   UL 7468     30mil   105 'C   C     60mil   120 'C   'C     51: Derived from similar grade   120 'C     Flanmability   dry / cond   Unit   Test Standard     Burning Behav. at 60mil nom, thickn.   HB /* class   IEC 60695-11-10     Thickness tested   1.5 /* mm   IEC 60695-11-10     UL recognition   yes /* -   UL 94     Burning Behav. at thickness h   HB /* class   IEC 60695-11-10     Thickness tested   0.81 /* mm   IEC 60695-11-10     FAW3S Class   B   -   IEC 60695-11-10     Fundbilty. 3.0mm   HB /* -   IEC 60695-11-10     Flammability. 3.0mm   B /* -   IEC 60695-11-10     Fundbilty. 3.0mm   B /* -   IEC 60695-11-10     Fundbilty. 3.0mm   B /* -   IEC 60695-11-10
60mil     105 /*     'C       120mil     105     'C       RTI, strength     UL 746B       30mil     105     'C       60mil     120 /*     'C       120mil     120 /*     'C       120mil     120 /*     'C       55: Derived from similar grade     ''     C       Flammability     dry / cond     Unit     Test Standard       Burning Behav. at 60mil nom. thickn.     HB /*     class     IEC 60695-11-10       UL recognition     yes /*     -     UL 94       Burning Behav. at thickness h     HB /*     class     IEC 60695-11-10       Thickness tested     0.81 /*     mm     IEC 60695-11-10       Flammability, 3.0mm     HB /*     class     IEC 60695-11-10       Flammability, 3.0mm     B     -     ISO 3795 (FMVSS 302)       Burning rate, Thickness 1 mm     22     mm/min     ISO 3795 (FMVSS 302)       Electrical properties     dr/ cond     Unit     Test Standard       Comparative tracking index     250 /-     -     IEC 60112
120mil     105     * C       RTI, strength     UL 746B       30mil     105     * C       60mil     120 /*     * C       120mil     120     * C       b5: Derived from similar grade     120     * C       Flammability     dry / cond     Unit     Test Standard       Burning Behav. at 60mil nom. thickn.     HB /*     class     IEC 60695-11-10       Thickness tested     1.5 / *     mm     IEC 60695-11-10       UL recognition     yes / *     -     UL 94       Burning Behav. at thickness h     HB /*     class     IEC 60695-11-10       Thickness tested     0.81 / *     mm     IEC 60695-11-10       Thickness tested     0.81 / *     mm     IEC 60695-11-10       Flammability, 3.0mm     HB / *     class     IEC 60695-11-10       FWSS Class     B     -     ISO 3795 (FWSS 302)       Burring rate, Thickness 1 mm     22     rm/min     ISO 3795 (FWSS 302)       Electrical properties     dry / cond     Unit     Test Standard       Comparative tra
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60mil   120 /*   *C     120mil   120 *C     Bis Derived from similar grade     Flammability   dry / cond   Unit     Burning Behav. at 60mil nom. thickn.   HB /*   class     Thickness tested   1.5 /*   mm     UL recognition   yes /*   -     Burning Behav. at thickness h   HB /*   class     Thickness tested   0.81 /*   mm     Burning Behav. at thickness h   HB /*   class     Thickness tested   0.81 /*   mm     Burning Behav. at thickness h   HB /*   class     Thickness tested   0.81 /*   mm     Burning rate, Thickness 1 mm   22 mm/min   ISO 3795 (FMVSS 302)     Burning rate, Thickness 1 mm   22 mm/min   ISO 3795 (FMVSS 302)     Burning rate, Thickness 1 mm   22 mm/min   ISO 3795 (FMVSS 302)     Burning rate, Thickness 1 mm   22 mm/min   ISO 3795 (FMVSS 302)     Burning rate, Thickness 1 mm   22 mm/min   ISO 3795 (FMVSS 302)     Burning rate, Thickness 1 mm   22 /*   %   Sim. to ISO 62     Other properties   dry / cond   Unit <td< td=""></td<>
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DS: Derived from similar grade     Flammability   dry / cond   Unit   Test Standard     Burning Behav. at 60mil nom, thickn.   HB / *   class   IEC 60695-11-10     Thickness tested   1.5 / *   mm   IEC 60695-11-10     UL recognition   yes / *   -   UL 94     Burning Behav. at thickness h   HB / *   class   IEC 60695-11-10     Thickness tested   0.81 / *   mm   IEC 60695-11-10     Flammability, 3.0mm   HB / *   -   IEC 60695-11-10     FMVSS Class   B   -   ISO 3795 (FMVSS 302)     Burning rate, Thickness 1 mm   22   mm/min   ISO 3795 (FMVSS 302)     Electrical properties   dry / cond   Unit   Test Standard     Comparative tracking index   250 / -   -   IEC 60112     Other properties   dry / cond   Unit   Test Standard     Humidity absorption, 80mil   2.2 / *   %   Sim. to ISO 62     Water absorption, 80mil   6.5 / *   Sim. to ISO 62   Density     Density of melt   1040   kg/m³   -   VDA Properties     UNA   Greg
Burning Behav. at 60mil nom. thickn.HB / *classIEC 60695-11-10Thickness tested1.5 / *mmIEC 60695-11-10UL recognitionyes / *-UL 94Burning Behav. at thickness hHB / *classIEC 60695-11-10Thickness tested0.81 / *mmIEC 60695-11-10Flammability, 3.0mmHB / *-IEC 60695-11-10FMVSS ClassB-ISO 3795 (FMVSS 302)Burning rate, Thickness 1 mm22mm/minISO 3795 (FMVSS 302)Electrical propertiesdry / condUnitTest StandardComparative tracking index250 /IEC 60112Other propertiesdry / condUnitTest StandardHumidity absorption, 80mil2.2 / *%Sim. to ISO 62Water absorption, 80mil6.5 / *%Sim. to ISO 62Density1210 / -kg/m³-VDA Propertiesdry / condUnitTest Standard13µgC/gVDA Properties4 <sup>11</sup> classOdor test4 <sup>11</sup> classFogging, G-value (condensate)0.3 / *mg1: C31150 64521: C31150 6452
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Drying Temperature≥80°C-Drying Time, Dehumidified Dryer2 - 4h-
Drying Time, Dehumidified Dryer 2 - 4 h -
Processing Maisture Content
Processing Moisture Content ≤0.2 % -
Melt Temperature Optimum 295 °C -
Min. melt temperature 285 °C -
Max. melt temperature 305 °C -
Max. screw tangential speed 0.2 / * m/s -
Mold Temperature Optimum 80 °C -
Min. mold temperature 50 °C -
Max. mold temperature 100 °C -
Hold pressure range 50 - 100 MPa -
Hold pressure time 3 s/mm -
Hold pressure time3s/mm-Ejection temperature210°C-
Hold pressure time 3 s/mm -   Ejection temperature 210 °C -   Characteristics - - -
Hold pressure time 3 s/mm -   Ejection temperature 210 °C -   Characteristics Processing • Injection Molding
Hold pressure time   3   s/mm   -     Ejection temperature   210   °C   -     Characteristics   -   -   -     Processing   • Injection Molding   -   -     Delivery form   • Pellets   -   -
Hold pressure time   3   s/mm   -     Ejection temperature   210   °C   -     Characteristics   -   -   -     Processing   • Injection Molding   -   -     Delivery form   • Pellets   -   -

to heat • Europe

Regional Availability

Near East/Africa

Revised: 2018-03-20

#### To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

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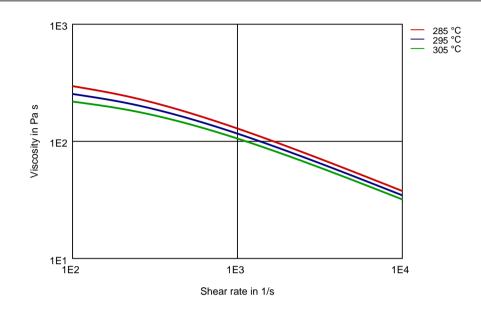


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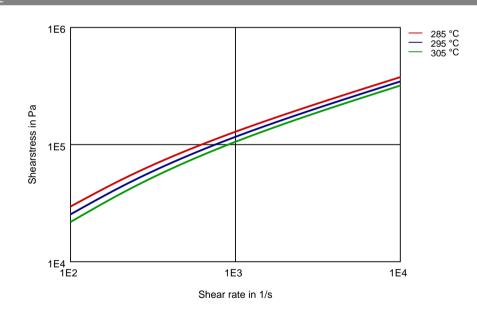
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Diagrams

Viscosity-shear rate



Shearstress-shear rate



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

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To find out more, visit Du	Pont Performance Po	lymers or contact nearest DuPont location.	
North America DONGGUAN FUMEI PLASTIC EMAIL: fumei@foomx.com	Asia Pacific	Europe/Middle East/Africa TEL: +86 0769-82339888 / 87798999	OU PONT)
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measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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