Product Information

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® 80G14AHS BK099 is a 14% glass fiber reinforced, toughened, high flow, heat stabilized polyamide 66 resin. It offers outstanding performance in injection molding applications.

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General information Resin Identification	Value PA66-IGF14	Unit	Test Standard ISO 1043
		-	
Part Marking Code	PA66-IGF14	-	ISO 11469
Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.4 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / -	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	5000 / 3300	MPa	ISO 527-1/-2
Stress at break	110 / 70	MPa	ISO 527-1/-2
Strain at break	3.8 / 6	%	ISO 527-1/-2
Flexural Modulus	4400 / 3100	MPa	ISO 178
Charpy impact strength			ISO 179/1eU
73°F	70 / 75	kJ/m²	
-22°F	50 / 70	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
73°F	13 / 17	kJ/m²	
-22°F	6 / 7	kJ/m²	
Izod notched impact strength			ISO 180/1A
73°F	13 / 17	kJ/m²	
-22°F	6 / 7	kJ/m²	
-40°F	6/6	kJ/m²	
Izod impact strength, 73°F	55 / -	kJ/m²	ISO 180/1U
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	240 / *	°C	
65 psi	258 / *	°C	
Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion			ISO 11359-1/-2
normal	104 / *	E-6/K	
Normal, -40-23°C	97 / *	E-6/K	
Normal, 55-160°C	135 / *	E-6/K	
Parallel, -40-23°C	40 / *	E-6/K	
Parallel, 55-160°C	40 / *	E-6/K	
RTI, electrical	10 /	20/10	UL 746B
30mil	120 / *	°C	02,100
60mil	120 / *	°C	
120mil	120 /	°C	
	120	<u>ر</u>	

Revised: 2017-10-09

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

North America

Asia Pacific

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30mil 65 * C 420mil 105 * C 120mil 105 * C 30mil 85 * C 60mil 105 / * * C 120mil 105 * C 120mil 105 / * * C 120mil 105 * C Flammability dry / cond Unit Test Standard Burning Behav. at 60min nom, thickn. HB / * Class EC 6095-11-10 Thickness tested 1.5 / * mm EC 6095-11-10 UL recognition yes / * - UL 94 Burning Behav. at 60min nom, thickn. HB / * Class EC 6095-11-10 UL recognition yes / * - UL 94 Oxygen index 21 / * % ISO 4389-11/-2 DS FMVSS Class B - ISO 3795 (FMVSS 302) DS: Derived from similar grade 0 mming rate, Thickness 1 nm <100 Other properties 0ry / cond Unit Test Standard Density 1190 / - kg/m² ISO 1183 VOA Properties 0ry / cond Unit Test Standard	RTI, impact			UL 746B	
120mil 105 * C RTI, strength UL 746B 30mil 85 * C 60mil 105 / * * C 120mil 105 * 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 3 / * mm IEC 60695:11:10 UL recognition yes / * - UL 94 Oxygen index 21 / * % ISO 4369:1/-2 DS FMVSS Class B - ISO 3795 (FMVSS 302) Burning rate, Thickness 1 mm <100	30mil	65	°C		
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DS: Derived from similar grade Other properties dry / cond Unit Test Standard Density 190 / - kg/m³ ISO 1183 VDA Properties Value Unit Test Standard Emission of organic compounds 3.9 µgC/g VDA 277 Odor test 4.5 class VDA 270 Injection dry / cond Unit Test Standard Drying Recommended yes - - Drying Time, Dehumidified Dryer 2 · 4 h - Processing Moisture Content ≤0.2 % - Melt Temperature 285 °C - Main. melt temperature 285 °C - Max. screw tangential speed 0.2 / * m/s - Mold Temperature 305 °C - Max. mold temperature 50 °C - Mold Temperature 50 °C - Max. mold temperature 100 °C - Mold Temperature 100 °C - Max. mold temperature	FMVSS Class	В	-	ISO 3795 (FMVSS 302)	
DS: Derived from similar grade Other properties dry / cond Unit Test Standard Density 190 / - kg/m³ ISO 1183 VDA Properties Value Unit Test Standard Emission of organic compounds 3.9 µgC/g VDA 277 Odor test 4.5 class VDA 270 Injection dry / cond Unit Test Standard Drying Recommended yes - - Drying Time, Dehumidified Dryer 2 · 4 h - Processing Moisture Content ≤0.2 % - Melt Temperature 285 °C - Main. melt temperature 285 °C - Max. screw tangential speed 0.2 / * m/s - Mold Temperature 305 °C - Max. mold temperature 50 °C - Mold Temperature 50 °C - Max. mold temperature 100 °C - Mold Temperature 100 °C - Max. mold temperature	Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)	
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Odor test	4.5	class	VDA 270	
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Mold Temperature Optimum80°C-Min. mold temperature50°C-Max. mold temperature100°C-Hold pressure range50 - 100MPa-Hold pressure time3s/mm-	Max. melt temperature	305	°C	-	
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Max. mold temperature 100 °C Hold pressure range 50 - 100 MPa Hold pressure time 3 s/mm	Mold Temperature Optimum	80	°C	-	
Hold pressure range 50 - 100 MPa - Hold pressure time 3 s/mm -	Min. mold temperature	50	°C	-	
Hold pressure time 3 s/mm -	Max. mold temperature	100	°C	-	
Ejection temperature 210 °C -	Hold pressure range	50 - 100	MPa	-	
	· · · · · · · · · · · · · · · · · · ·			-	

Characteristics				
Processing	 Injection Molding 			
Special characteristics	 Heat stabilized or stable 			
special characteristics	to heat			
Regional Availability	 North America 	 Asia Pacific 	 Near East/Africa 	
Regional Availability	Europe	 South and Central America 	• Global	

Revised: 2017-10-09

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

North America

Asia Pacific DONGGUAN FUMEI PLASTICS CO., LTD. EMAIL: fumei@foomx.com

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Chemical Media Resistance Acids Acetic Acid (5% by mass) (23°C) 1 1 Citric Acid solution (10% by mass) (23°C) Lactic Acid (10% by mass) (23°C) / XXXXXX Hydrochloric Acid (36% by mass) (23°C) Nitric Acid (40% by mass) (23°C) Sulfuric Acid (38% by mass) (23°C) Sulfuric Acid (5% by mass) (23°C) Chromic Acid solution (40% by mass) (23°C) Bases Х 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 1 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) / \checkmark ISO 1817 Liquid 2 - M15E4 (60°C) 1 ISO 1817 Liquid 3 - M3E7 (60°C) 1 ISO 1817 Liquid 4 - M15 (60°C) Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C) 1 Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C) Revised: 2017-10-09 Page: 3 of 4

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Asia Pacific

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- 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)

Other

Ethyl A	cetate	(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:

possibly resistant

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).

Xnot 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.

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North America Asia DONGGUAN FUMEI PLASTICS CO., LTD.

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