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® E51HSB NC010 is a high molecular weight, heat stabilized polyamide 66 resin for injection molding and extrusion.

Resin Identification PA66 - ISO 1043 Part Marking Code PA66 - ISO 11469 Rheological properties dry / cond Unit Test Standard Viscosity number 310 ⁽¹⁾ / * cm³/g ISO 307, 1157, 1628 Molding shrinkage, parallel 1.3 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.3 / - % ISO 294-4, 2577 1: 90% formic acid Wechanical properties dry / cond Unit Test Standard Tensile Modulus 3100 / 1200 MPa ISO 527-1/-2 150 527-1/-2 Yield strain 4.3 / 29 % ISO 527-1/-2 150 527-1/-2 Yield strain at break 35 / - % ISO 527-1/-2 150 527-1/-2 150 527-1/-2 Nominal strain at break 35 / - % ISO 527-1/-2 150 527-1/-2 150 527-1/-2 Strain at Break, 23° C, 50mm/min >50 / - % ISO 527-1/-2 150 527-1/-2 150 527-1/-2 Strain at Break, 23° C, 50mm/min 2800 / - MPa ISO 179/1eU 150 179/1eU Charpy impact strength, 73° F N / - kJ/m² ISO 1
Rheological properties dry / cond Unit Test Standard Viscosity number 310 ¹¹ / * cm³/g ISO 307, 1157, 1628 Molding shrinkage, parallel 1.3 / * % ISO 294-4, 2577 Molding shrinkage, normal 1.3 / * % ISO 294-4, 2577 1: 90% formic acid Mechanical properties dry / cond Unit Test Standard Tensile Modulus 3100 / 1200 MPa ISO 527-1/-2 Yield stress 8 4 / 55 MPa ISO 527-1/-2 Yield strain at break 35 / * % ISO 527-1/-2 Nominal strain at break 35 / * % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / * % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / * % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / * ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / * ISO 178 Charpy impact strength, 73°F N / * KJ/m² ISO 179/1eU Charpy impact strength, 73°F N / * KJ/m² ISO 179/1eU
Viscosity number 310 ¹¹ / * cm³/g ISO 307, 1157, 1628 Molding shrinkage, parallel 1.3 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.3 / - % ISO 294-4, 2577 1: 90% formic acid Mechanical properties dry / cond Unit Test Standard Tensile Modulus 3100 / 1200 MPa ISO 527-1/-2 Yield stress 84 / 55 MPa ISO 527-1/-2 Yield strain 4.3 / 29 % ISO 527-1/-2 Nominal strain at break 35 / - % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / - % ISO 527-1/-2 Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eA 73°F 7 / 21 kJ/m² -22°F 6 / 4 kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 65 psi 200 / * ° C <t< td=""></t<>
Molding shrinkage, parallel 1.3 / -
Molding shrinkage, parallel 1.3 / - % ISO 294-4, 2577 Molding shrinkage, normal 1.3 / - % ISO 294-4, 2577 1: 90% formic acid Mechanical properties dry / cond Unit Test Standard Tensile Modulus 3100 / 1200 MPa ISO 527-1/-2 Yield stress 84 / 55 MPa ISO 527-1/-2 Yield strain 4.3 / 29 % ISO 527-1/-2 Yield strain at break 35 / - % ISO 527-1/-2 Nominal strain at break 35 / - % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / - % ISO 527-1/-2 Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eA 73°F 7 / 21 kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 <td< td=""></td<>
Molding shrinkage, normal 1.3 / - % ISO 294-4, 2577
Mechanical properties dry / cond Unit Test Standard Tensile Modulus 3100 / 1200 MPa ISO 527-1/-2 Yield stress 84 / 55 MPa ISO 527-1/-2 Yield strain 4.3 / 29 % ISO 527-1/-2 Nominal strain at break 35 / - % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / - % ISO 527-1/-2 Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eU ISO 179/1eU Charpy notched impact strength, 73°F 7 / 21 kJ/m² Izod notched impact strength, 73°F 6 / 4 kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² Izod notched imp
Tensile Modulus 3100 / 1200 MPa ISO 527-1/-2 Yield stress 84 / 55 MPa ISO 527-1/-2 Yield strain 4.3 / 29 % ISO 527-1/-2 Nominal strain at break 35 / - % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / - % ISO 527-1/-2 Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eA ISO 179/1eA 73°F 7 / 21 kJ/m² ISO 179/1eA 73°F 6 / 4 kJ/m² ISO 180/1A Izod notched impact strength, 73°F 6 / - kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90°F/h, 11 lbf 221 / * °C ISO 306
Yield stress 84 / 55 MPa ISO 527-1/-2 Yield strain 4.3 / 29 % ISO 527-1/-2 Nominal strain at break 35 / - % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / - % ISO 527-1/-2 Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eA T79/1eA ISO 179/1eA 73°F 7 / 21 kJ/m² ISO 179/1eA 73°F 6 / 4 kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90°F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Yield strain 4.3 / 29 % ISO 527-1/-2 Nominal strain at break 35 / - % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 / - % ISO 527-1/-2 Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eA ISO 179/1eA 73°F 7 / 21 kJ/m² KJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * ° ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90°F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Nominal strain at break 35 / - % ISO 527-1/-2
Strain at Break, 23 °C, 50mm/min >50 / - % ISO 527-1/-2 Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73 °F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eA ISO 179/1eA 73 °F 7 / 21 kJ/m² -22 °F 6 / 4 kJ/m² Izod notched impact strength, 73 °F 6 / - kJ/m² Izod notched impact strength, 73 °F 6 / - kJ/m² Iso 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18 °F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90 °F/h, 11 lbf 221 / * °C Vicat softening temperature, expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Flexural Modulus 2800 / - MPa ISO 178 Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eA ISO 179/1eA 73°F 7 / 21 kJ/m² -22°F 6 / 4 kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² Iso 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90°F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Charpy impact strength, 73°F N / - kJ/m² ISO 179/1eU Charpy notched impact strength ISO 179/1eA ISO 179/1eA 73°F 7 / 21 kJ/m² -22°F 6 / 4 kJ/m² Izod notched impact strength, 73°F 6 / - kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90°F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Charpy notched impact strength 73°F 7 / 21 kJ/m² 150 179/1eA 73°F 7 / 21 kJ/m² 120d notched impact strength, 73°F 6 / - kJ/m² 150 180/1A 150/1A
73 °F 7 / 21 kJ/m² -22 °F 6 / 4 kJ/m² Izod notched impact strength, 73 °F 6 / - kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18 °F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90 °F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
73 °F 7 / 21 kJ/m² -22 °F 6 / 4 kJ/m² Izod notched impact strength, 73 °F 6 / - kJ/m² ISO 180/1A Thermal properties dry / cond Unit Test Standard Melting temperature, 18 °F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90 °F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Izod notched impact strength, 73°F6 / -kJ/m²ISO 180/1AThermal propertiesdry / condUnitTest StandardMelting temperature, 18°F/min262 / *°CISO 11357-1/-3Temp. of deflection under loadISO 75-1/-2260 psi70 / *°C65 psi200 / *°CVicat softening temperature, 90°F/h, 11 lbf221 / *°CISO 306Coeff. of linear therm. expansion, parallel100 / *E-6/KISO 11359-1/-2
Thermal properties dry / cond Unit Test Standard Melting temperature, 18°F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90°F/h, 11 lbf 221 / * °C Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 306 ISO 11359-1/-2
Thermal properties dry / cond Unit Test Standard Melting temperature, 18° F/min 262 / * °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 70 / * °C 65 psi 200 / * °C Vicat softening temperature, 90° F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Temp. of deflection under load $ \begin{array}{ccccccccccccccccccccccccccccccccccc$
260 psi 70 / * ° C 65 psi 200 / * ° C Vicat softening temperature, 90°F/h, 11 lbf 221 / * ° C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
65 psi 200 / * °C Vicat softening temperature, 90°F/h, 11 lbf 221 / * °C ISO 306 Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Vicat softening temperature, 90° F/h, 11 lbf221 / * °CISO 306Coeff. of linear therm. expansion, parallel100 / * E-6/KISO 11359-1/-2
Coeff. of linear therm. expansion, parallel 100 / * E-6/K ISO 11359-1/-2
Coeff of linear therm amounts remain 100 /* F / // ICO (4250 4 / 2
Coeff. of linear therm. expansion, normal 100 / * E-6/K ISO 11359-1/-2
Thermal conductivity of melt 0.16 W/(m K) -
Spec. heat capacity of melt 2790 J/(kg K) -
Flammability dry / cond Unit Test Standard
Oxygen index 20 / * % ISO 4589-1/-2
FMVSS Class DNI - ISO 3795 (FMVSS 302)
Electrical properties dry / cond Unit Test Standard
Volume resistivity >1E13 / 1E11 Ohm*m IEC 60093
Comparative tracking index 600 / IEC 60112
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/m³ ISO 1183

Revised: 2017-05-16 Page: 1 of 10

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

North America **Asia Pacific** Europe/Middle East/Africa Tel: +1 302 999-4592 Tel: +81 3 5521 8600 Tel: +41 22 717 51 11

Toll-Free (USA): 800 441-0575



Density of melt	980	kg/m³	-	
Injection	dry / cond	Unit	Test Standard	
Drying Recommended	yes	-	-	
Drying Temperature	80	°C	-	
Drying Time, Dehumidified Dryer	2 - 4	h	-	
Processing Moisture Content	≤0.05	%	-	
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	-	
Drying Time, Dehumidified Dryer	4 - 6	h	-	
Processing Moisture Content	≤0.05	%	-	
Melt Temperature Optimum	285	°C	-	
Melt Temperature Range	280 - 290	°C	-	

Characteristics			
Processing	 Injection Molding 	 Sheet Extrusion 	 Casting
	 Film Extrusion 	 Other Extrusion 	
	 Profile Extrusion 	 Coating 	
Delivery form	Pellets		
Additives	Release agent		
Special characteristics	 Heat stabilized or stable 		
special characteristics	to heat		
Regional Availability	North America	Asia Pacific	 Near East/Africa
	 Europe 	 South and Central America 	 Global

Revised: 2017-05-16 Page: 2 of 10

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

North America Asia Pacific Tel: +1 302 999-4592 Tel: +81 3 5521 8600

Europe/Middle East/Africa

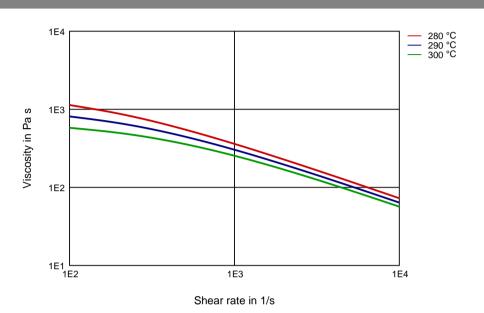
Toll-Free (USA): 800 441-0575

Tel: +41 22 717 51 11

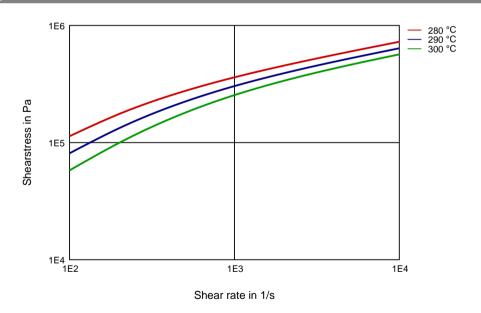


Diagrams

Viscosity-shear rate



Shearstress-shear rate



Revised: 2017-05-16 Page: 3 of 10

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

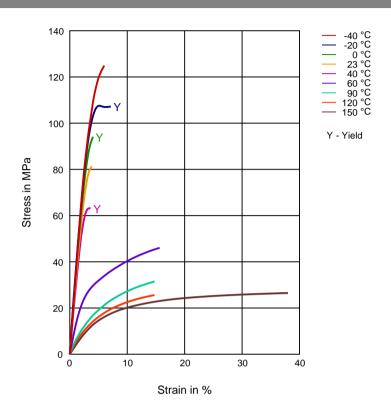
North America

Tel: +1 302 999-4592 Toll-Free (USA): 800 441-0575 **Asia Pacific** Tel: +81 3 5521 8600

Europe/Middle East/Africa

Tel: +41 22 717 51 11





Revised: 2017-05-16 Page: 4 of 10

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

North America

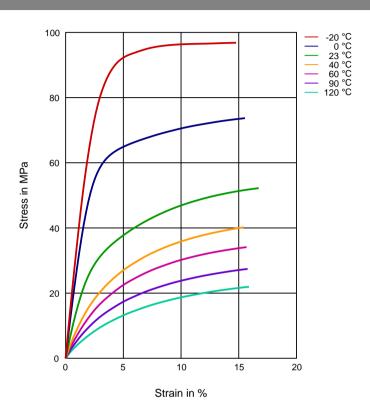
Tel: +1 302 999-4592

Asia Pacific Tel: +81 3 5521 8600 Europe/Middle East/Africa Tel: +41 22 717 51 11

Toll-Free (USA): 800 441-0575



Stress-strain (cond.)



Revised: 2017-05-16 Page: 5 of 10

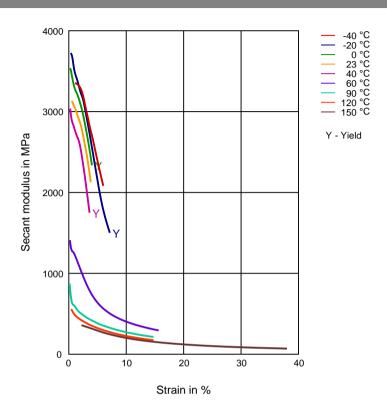
To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America

Tel: +1 302 999-4592 Toll-Free (USA): 800 441-0575 Asia Pacific Tel: +81 3 5521 8600 Europe/Middle East/Africa Tel: +41 22 717 51 11



Secant modulus-strain (dry)



Revised: 2017-05-16 Page: 6 of 10

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

North America

Tel: +1 302 999-4592 Toll-Free (USA): 800 441-0575

Company or its affiliates. All rights reserved.

Asia Pacific Tel: +81 3 5521 8600

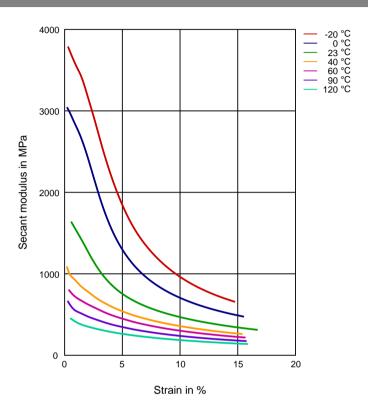
Copyright 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and

Europe/Middle East/Africa





Secant modulus-strain (cond.)



Revised: 2017-05-16 Page: 7 of 10

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

North America

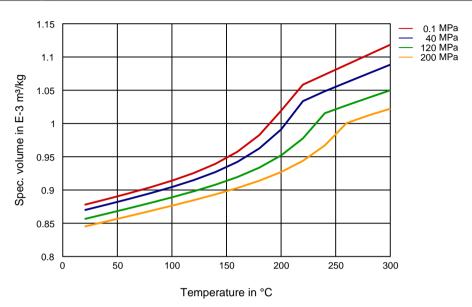
Tel: +1 302 999-4592 Toll-Free (USA): 800 441-0575

Asia Pacific Tel: +81 3 5521 8600 Europe/Middle East/Africa





Specific volume-temperature (pvT)



Revised: 2017-05-16 Page: 8 of 10

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

North America Tel: +1 302 999-4592 **Asia Pacific** Tel: +81 3 5521 8600

Europe/Middle East/Africa

Toll-Free (USA): 800 441-0575

Tel: +41 22 717 51 11



Chemical Media Resistance

Acids

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)

Satiatic 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 oil

SAE 10W40 multigrade motor oil (23°C)

SAE 10W40 multigrade motor oil (130°C)

X 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)

Revised: 2017-05-16

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

North America Asia Pacific Europe/Middle East/Africa

Tel: +1 302 999-4592 Toll-Free (USA): 800 441-0575 Tel: +81 3 5521 8600 Tel: +41 22 717 51 11

QU POND

Page: 9 of 10

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:

✓ 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).



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.

Copyright © 2017 DuPont or its affiliates. All Rights Reserved. The DuPont Oval Logo, DuPont™, The miracles of science™ and all products denoted with ® or ™ are registered trademarks or trademarks of E.I. du Pont de Nemours and Company or its affiliates.

Revised: 2017-05-16 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America **Asia Pacific** Tel: +1 302 999-4592 Tel: +81 3 5521 8600

Company or its affiliates. All rights reserved.

Europe/Middle East/Africa

Tel: +41 22 717 51 11



Page: 10 of 10