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® 70G13HS1L NC010 is a 13% glass fiber reinforced, heat stabilised polyamide 66 resin for injection moulding.

General information	Value	Unit	Test Standard
Resin Identification	PA66-GF13	-	ISO 1043
Part Marking Code	PA66-GF13	-	ISO 11469
Rheological properties	dry / cond	Unit	Test Standard
Moulding shrinkage, parallel	0.7 / -	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.2 / -	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	5500 / 3500	MPa	ISO 527-1/-2
Stress at break	120 / 75	MPa	ISO 527-1/-2
Strain at break	3 / 13	%	ISO 527-1/-2
Flexural Modulus	4900 / 2900	MPa	ISO 178
Flexural Strength	190 / 100	MPa	ISO 178
Poisson's ratio	0.35 / 0.37	-	ISO 527-1/-2
Tensile creep modulus			ISO 899-1
1h	* / 3300	MPa	
1000h	* / 2200	MPa	
Charpy impact strength			ISO 179/1eU
23°C	32 / 70	kJ/m²	
-30°C	30 / 30	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
23°C	5/6	kJ/m²	
-30°C	- / 4	kJ/m²	
-40°C	4.5 / -	kJ/m²	
Izod notched impact strength			ISO 180/1A
23°C	4.5 / 4	kJ/m²	
-30°C	4.5 / 3	kJ/m²	
-40°C	4.5 / 3	kJ/m ²	
Izod impact strength		-	ISO 180/1U
23°C	40 / 55	kJ/m²	
-30°C	35 / 28	kJ/m ²	
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 10°C/min	262 / *	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	80 / -	°C	ISO 11357-1/-2
Temp. of deflection under load		-	ISO 75-1/-2
1.8 MPa	238 / *	°C	
0.45 MPa	258 / *	°Č	
Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
		- •/···	

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Coeff. of linear therm. expansion			ISO 11359-1/-2
normal	93 / *	E-6/K	
Normal, -40-23°C	77 / *	E-6/K	
Normal, 55-160°C	149 / *	E-6/K	
Parallel, -40-23°C	42 / *	E-6/K	
Parallel, 55-160°C	26 / *	E-6/K	
Thermal conductivity of melt	0.16	W/(m K)	
Spec. heat capacity of melt	2370	J/(kg K)	
Eff. thermal diffusivity	8.5E-8	m ² /s	<u> </u>
RTI, electrical	0.02 0		UL 746B
0.75mm	140 / *	°C	U 1 100
1.5mm	140 / *	°Č	
3mm	140	°Č	
RTI, impact	110	<u> </u>	UL 746B
0.75mm	125	°C	
1.5mm	125 / *	°Č	
3mm	125	°C	
RTI, strength	125	<u> </u>	UL 746B
0.75mm	140	°C	0E / 40D
1.5mm	140 / *	°C	
3mm	140	°C	
Flammability	dry / cond	Unit	Test Standard
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *		
	yes / *	mm	IEC 60695-11-10
UL recognition	yes / *	-	UL 94 IEC 60695-11-10
Burning Behav. at thickness h		class	
Thickness tested	0.71 / *	mm	IEC 60695-11-10
UL recognition	yes / *	-	UL 94
FMVSS Class	<u> </u>	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	26	mm/min	ISO 3795 (FMVSS 302)
Electrical properties	dry / cond	Unit	Test Standard
Dissipation factor	70 / 0 /00		IEC 60250
10011		E-4	
100Hz	70 / 2400		
1MHz	70 / 2400	E-4	155 (0002
1MHz Volume resistivity	70 / 2400 >1E13 / -	E-4 Ohm*m	IEC 60093
1MHz Volume resistivity Other properties	70 / 2400 >1E13 / - dry / cond	E-4 Ohm*m Unit	Test Standard
1MHz Volume resistivity Other properties Humidity absorption, 2mm	70 / 2400 >1E13 / - dry / cond 2.2 / *	E-4 Ohm*m Unit %	Test Standard Sim. to ISO 62
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / *	E-4 Ohm*m Unit % %	Test Standard Sim. to ISO 62 Sim. to ISO 62
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / -	E-4 Ohm*m Unit % % kg/m ³	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / *	E-4 Ohm*m Unit % % kg/m ³ %	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62
1MHzVolume resistivityOther propertiesHumidity absorption, 2mmWater absorption, 2mmDensityWater Absorption, Immersion 24hVDA Properties	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value	E-4 Ohm*m Unit % % kg/m ³ % Unit	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard
1MHzVolume resistivityOther propertiesHumidity absorption, 2mmWater absorption, 2mmDensityWater Absorption, Immersion 24hVDA PropertiesEmission of organic compounds	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond	E-4 Ohm*m Unit % % kg/m ³ % Unit	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard
1MHzVolume resistivityOther propertiesHumidity absorption, 2mmWater absorption, 2mmDensityWater Absorption, Immersion 24hVDA PropertiesEmission of organic compounds	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit -	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Temperature	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Time, Dehumidified Dryer	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h %	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % %	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Min. melt temperature	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Min. melt temperature Max. melt temperature	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285 305	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C °C °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Max. screw tangential speed	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285 305 0.2 / *	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C h % °C °C °C °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - - - -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Max. screw tangential speed Mold Temperature Optimum	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285 305 0.2 / * 100	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C °C °C °C °C °C °C m/s °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - - - - -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. screw tangential speed Mold Temperature Min. mould temperature	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285 305 0.2 / * 100 70	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C °C m/s °C °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - - - - -
1MHzVolume resistivityOther propertiesHumidity absorption, 2mmWater absorption, 2mmDensityWater Absorption, Immersion 24hVDA PropertiesEmission of organic compoundsInjectionDrying RecommendedDrying TemperatureDrying Time, Dehumidified DryerProcessing Moisture ContentMelt Temperature OptimumMin. melt temperatureMax. screw tangential speedMold Temperature OptimumMin. mould temperatureMax. mould temperature	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285 305 0.2 / * 100 70 120	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C °C m/s °C °C c °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - - - - - - - -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature Hold pressure range	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285 305 0.2 / * 100 70 120 50 - 100	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C °C m/s °C °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - - - - - - - - - - - -
1MHz Volume resistivity Other properties Humidity absorption, 2mm Water absorption, 2mm Density Water Absorption, Immersion 24h VDA Properties Emission of organic compounds Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature	70 / 2400 >1E13 / - dry / cond 2.2 / * 7.6 / * 1230 / - 1.7 / * Value 6 dry / cond yes 80 2 - 4 ≤0.2 295 285 305 0.2 / * 100 70 120	E-4 Ohm*m Unit % % kg/m ³ % Unit µgC/g Unit - °C h % °C °C m/s °C °C c °C	Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 Sim. to ISO 62 Test Standard VDA 277 Test Standard - - - - - - - - - - - - -

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Ejection temperature	21	0 °C -	
Characteristics			
Processing	 Injection Moulding 		
Delivery form	Pellets		
Additives	 Lubricants 	 Release agent 	
Special characteristics	 Heat stabilised or stable to heat 		
Regional Availability	North AmericaEurope	Asia PacificSouth and Central America	Near East/AfricaGlobal

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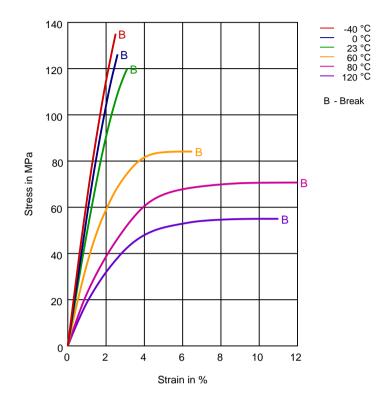
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Diagrams

Stress-strain (dry)(measured on Zytel® 70G13L NC010)



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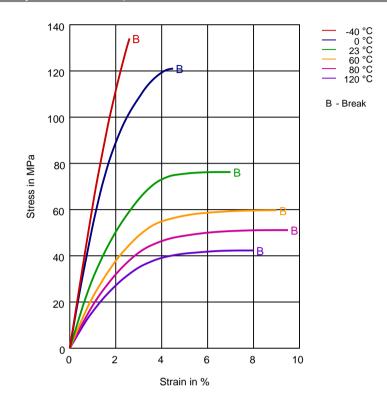
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Stress-strain (cond.)(measured on Zytel® 70G13L NC010)



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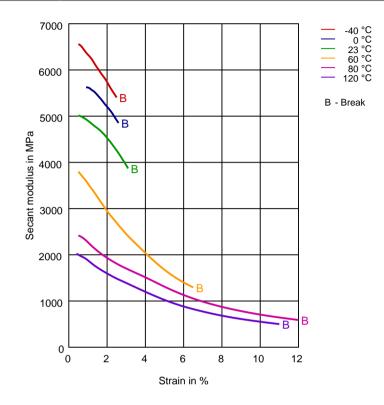
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Secant modulus-strain (dry)(measured on Zytel® 70G13L NC010)



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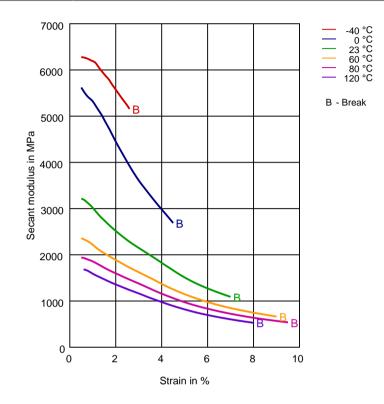
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Secant modulus-strain (cond.)(measured on Zytel® 70G13L NC010)



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QUPONT

Chemical Media Resistance Acids Acetic Acid (5% by mass) (23°C) 1 1 Citric Acid solution (10% by mass) (23°C) 1 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) 1 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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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 Acetate (23°C)
- X 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 4mm (Hytrel® measured at 2 mm), IEC Electrical properties measured at 2mm, all ASTM properties measured at 3.2mm, and test temperatures are 23°C unless otherwise stated.

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