Product Information

Common features of Hytrel® thermoplastic polyester elastomer include mechanical and physical properties such as exceptional toughness and resilience, high resistance to creep, impact and flex fatigue, flexibility at low temperatures and good retention of properties at elevated temperatures. In addition, it resists many industrial chemicals, oils and solvents. Special grades include heat stabilised, flame retardant, food contact compliant, blow molding and extrusion grades. Concentrates offered include black pigments, UV protection additives, heat stabilisers, and flame retardants.

Hytrel® thermoplastic polyester elastomer is plasticiser free.

The good melt stability of Hytrel® thermoplastic polyester elastomer normally enables the recycling of properly handled production waste. If recycling is not possible, DuPont recommends, as the preferred option, incineration with energy recovery (-24 kJ/g of base polymer) in appropriately equipped installations.

For disposal, local regulations have to be observed.

Hytrel® thermoplastic polyester elastomer typically is used in demanding applications in the automotive, fluid power, electrical/electronic, consumer goods, appliance and power tool, sporting goods, furniture, industrial and off-road transportation/equipment industry.

Hytrel® 5555HS is a medium modulus Hytrel® grade, with nominal durometer hardness of 55D. It is a specially stabilized version of Hytrel® 5556 for superior heat and oil resistance properties.

Typical applications:

Parts with increased heat-ageing stability and oil and grease resistance such as tubing and hose, wire and cable jackets, film and sheeting, belting.

Precautions:

Contains a discoloring antioxidant. Not suited for light-colored finished products.

General information	Value	Unit	Test Standard
Resin Identification	TPC-ET	=	ISO 1043
Part Marking Code	TPC-ET	-	ISO 11469
Rheological properties	Value	Unit	Test Standard
Melt volume-flow rate	8.5	cm ³ /10min	ISO 1133
Temperature	220	°C	ISO 1133
Load	2.16	kg	ISO 1133
Melt mass-flow rate	8.5	g/10min	ISO 1133
Melt mass-flow rate, Temperature	220	°C	ISO 1133
Melt mass-flow rate, Load	2.16	kg	ISO 1133
Molding shrinkage, parallel	1.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577
Mechanical properties (TPE)	Value	Unit	Test Standard
Yield stress	15	MPa	ISO 527-1/-2
Yield strain	36	%	ISO 527-1/-2
Stress at 5% strain	6.9	MPa	ISO 527-1/-2
Stress at 10% strain	11.1	MPa	ISO 527-1/-2
Stress at 50% strain	14.7	MPa	ISO 527-1/-2
Stress at 100% strain	16	MPa	ISO 527-1/-2
Stress at break	35	MPa	ISO 527-1/-2
Strain at break	>300	%	ISO 527-1/-2
Nominal strain at break	640	%	ISO 527-1/-2
Compression Set at 70 °C	60	%	ISO 815
Tear strength, parallel	134	kN/m	ISO 34-1
Tear strength, normal	124	kN/m	ISO 34-1
Abrasion resistance	120	mm³	ISO 4649
Shore D hardness, max	55	-	ISO 7619-1
Shore D hardness, 15s	52	=	ISO 7619-1

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Tensile Modulus	Mechanical properties	Value	Unit	Test Standard
Flexural Modulus				
Shear Modulus				
Tensile creep modulus				
1h 1000 MPa		03	Miα	
1000h 100 MPa 150 179 / 16U 16D 179 / 16U 15D 179 / 170 15D 170 / 170 15D 170 / 170 15D 170 / 170 15D 170 / 170 / 170 15D 170 / 170 / 170 / 170 / 170 15D 170 / 17	•	140	MDa	150 077 1
Charpy mact strength, 73° F N kJ/m² ISO 179/1eU				
Charpy notched impact strength 30 kJ/m² 4 kJ/m³ 14 kJ/m³ 150 8256/1 167				ICO 170 /1 al l
30 kJ/m² 14 kJ/m² 15 kJ/m² 16 kJ/m² 16 kJ/m² 17 kJ/m² 18 kJ/m²		IN .	KJ/III*	
-40°F 14 kJ/m² Tensile notched impact strength, -40°F 300 kJ/m² ISO 8256/1 Brittleness temperature -80°C ISO 974 Lod notched impact strength, -40°F 110 ⁸⁹ kJ/m² ISO 180/1A Peratual Exercises Value Unit Test standard Melting temperature, 18°F/min 201°C ISO 11357-17-2 Melting temperature of 65 psi 78°C ISO 75-17-2 65 psi 78°C ISO 306 90°F/h, 11 lbf 75°C ISO 306 90°F/h, 11 lbf 75°C ISO 306 20°F, 2 lbf 177°C ISO 306 Coeff. of linear therm. expansion, parallel 180°E-6/K ISO 11359-17-2 Eff. thermal diffusivity 5.44E-8 ISO 11359-17-2 RTI, electrical UL 746B UL 746B 30mil 90°C UL 746B 30mil 90°C UL 746B 30mil 90°C UL 746B 30mil 50°C UL 746B 30mil 50°C UL 746B	, ,	20	1.17 2	150 1797 TEA
Tensile notched impact strength, 73°F 300 k.l/m² ISO 8256/1				
Brittleness temperature -80 'C ISO 974 IZO mitched impact strength, -40°F 110°P kJ/m² ISO 180/1A P: Partial Break 110°P KJ/m² ISO 1857-1/-2 P: Partial Break 150°P 150				100 0057 /4
Total northed impact strength, -40°F 110°P kJ/m² ISO 180/1A				
P: Partial Break Thermal properties Value Unit Test Standard				10 0 11 1
Melting temperature, 18"F/min		110	kJ/m²	ISO 180/1A
Melting temperature, 18°F/min 201 °C ISO 11357-1/-3 Temp. of deflection under load 260 psi 51 °C 65 psi 78 °C Vicat softening temperature ISO 306 90°F/h, 11 lbf 75 °C 90°F/h, 11 lbf 77 °C Coeff. of linear therm. expansion, parallel 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11859-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11859-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11859-1/-2 Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11859-1/-2 Coeff. of linear therm. expansion, normal legal 180 E-6/K ISO 11859-1/-2 Coeff. of linear therm. expansion, normal legal 180 E-6/K ISO 11859-1/-2 Coeff. of linear therm. expansion, normal legal 180 E-6/K ISO 11859-1/-2 Coeff. of linear therm. expansion, normal legal 180 E-6/K ISO 11859-1/-2 Coeff. of linear th				
Temp. of deflection under load 150 75-1/-2		Value		
260 psi 78 °C 75		201	°C	
So psi	Temp. of deflection under load			ISO 75-1/-2
Vicat softening temperature 150 306 90 °F / h, 11 lbf 75 °C 177 °C 177 °C 177	260 psi	51	°C	
90°F/h, 11° bf 90°F, 2 lbf 177°C Coeff. of linear therm. expansion, parallel 180°E-6/K 180°C linear therm. expansion, normal 200°C 200°C linear therm. expansion, normal 200°C linear therm. expansion therm. expansion therm. expansion therm. expansion therm.	65 psi	78	°C	
90 °F, 2 lbf 177 °C	Vicat softening temperature			ISO 306
Coeff. of linear therm. expansion, parallel 180 E-6/K ISO 11359-1/-2	90°F/h, 11 lbf	75	°C	
Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2	90°F, 2 lbf	177	°C	
Coeff. of linear therm. expansion, normal 180 E-6/K ISO 11359-1/-2	Coeff. of linear therm. expansion, parallel	180	E-6/K	ISO 11359-1/-2
Eff. thermal diffusivity 5.44E-8 m²/s - RTI, electrical UL 746B UL 746B 30mil 90 °C C 60mil 90 °C UL 746B 120mil 50 °C UL 746B 30mil 50 °C C 60mil 85 °C UL 746B 30mil 50 °C C 60mil 85 °C C 120mil 85 °C C 60mil 85 °C C 120mil 85 °C C Flammability Value 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 3 mm IEC 60695-11-10 UL recognition yes - UL 94 Oxygen index 20 % ISO 4589-17-2 Flammability, 3.0mm HB - IEC 60095-11-10		180	E-6/K	ISO 11359-1/-2
RTI, electrical	Eff. thermal diffusivity	5.44E-8	m²/s	-
30mil			-	UL 746B
60mil 90 °C 120mil 90 °C RTI, impact UL 746B 30mil 50 °C 60mil 85 °C 120mil 85 °C RTI, strength UL 746B 30mil 50 °C 60mil 85 °C 120mil 85 °C Flammability Value 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 3 mm IEC 60695-11-10 UL recognition yes - UL 94 UL recognition yes - UL 94 UL recognition yes - US 94 UK recognition	•	90	°C	
120mil				
RTI, impact				
30mil 50 °C 60mil 85 °C				UI 746B
60mil 85 °C 120mil 85 °C RTI, strength UL 746B 30mil 50 °C 60mil 85 °C 120mil 85 °C Flammability Value 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 3 mm IEC 60695-11-10 UL recognition yes - UL 94 Oxygen index 20 % ISO 4589-1/-2 Flammability, 3.0mm HB - IEC 60695-11-10 FMVSS Class SE - ISO 3795 (FMVSS 302) Electrical properties Value Unit Test Standard Comparative tracking index 600 - IEC 60112 Other properties Value Unit Test Standard Humidity absorption, 80mil 0.6 % Sim. to ISO 62 Water absorption, 80mil 0.6 % Sim. to ISO 62 Density 1190 kg/m³ ISO 1183 <td>•</td> <td>50</td> <td>°C</td> <td>02 / 102</td>	•	50	°C	02 / 102
120mil				
RTI, strength				
30mil 85 °C 120mil 120				III 746B
60mil 85 °C 120mil 85 °C Flammability Value 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 3 mm IEC 60695-11-10 UL recognition yes - UL 94 Oxygen index 20 % ISO 4589-1/-2 Flammability, 3.0mm HB - IEC 60695-11-10 FMVSS Class SE - ISO 3795 (FMVSS 302) Electrical properties Value Unit Test Standard Comparative tracking index 600 - IEC 60112 Other properties Value Unit Test Standard Humidity absorption, 80mil 0.2 % Sim. to ISO 62 Water absorption, 80mil 0.6 % Sim. to ISO 62 Density 1190 kg/m³ ISO 1183	, •	50	۰۲	GE 7 10B
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Electrical propertiesValueUnitTest StandardComparative tracking index600 -IEC 60112Other propertiesValueUnitTest StandardHumidity absorption, 80mil0.2 %Sim. to ISO 62Water absorption, 80mil0.6 %Sim. to ISO 62Density1190 kg/m³ISO 1183				
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Other propertiesValueUnitTest StandardHumidity absorption, 80mil0.2 %Sim. to ISO 62Water absorption, 80mil0.6 %Sim. to ISO 62Density1190 kg/m³ISO 1183				
Humidity absorption, 80mil 0.2 % Sim. to ISO 62 Water absorption, 80mil 0.6 % Sim. to ISO 62 Density 1190 kg/m³ ISO 1183				
Water absorption, 80mil 0.6 % Sim. to ISO 62 Density 1190 kg/m³ ISO 1183				
Density 1190 kg/m³ ISO 1183				
Water Absorption, Immersion 24h $0.7~\%$ Sim. to ISO 62				
	Water Absorption, Immersion 24h	0.7	%	Sim. to ISO 62

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VDA Properties		Value	Unit	Test Standard	
Fogging, G-value (condensate)		0.1	mg	ISO 6452	DS
DS: Derived from similar grade					
Injection		Value	Unit	Test Standard	
Drying Recommended		yes	-	-	
Drying Temperature		≥100	°C	-	
Drying Time, Dehumidified Dryer		2 - 3	h	-	
Processing Moisture Content		≥0.08	%	-	
Melt Temperature Optimum		230	°C	-	
Min. melt temperature		220	°C	-	
Max. melt temperature		250	°C	-	
Mold Temperature Optimum		45	°C	-	
Min. mold temperature		45	°C	-	
Max. mold temperature		55	°C	-	
Extrusion		Value	Unit	Test Standard	
Drying Temperature		90 - 110	°C	-	
Drying Time, Dehumidified Dryer		2 - 3	h	-	
Processing Moisture Content		≤0.06	%	-	
Melt Temperature Optimum		225	°C	-	
Melt Temperature Range		220 - 235	°C	-	
Characteristics					
Processing	Injection MoldingFilm Extrusion		eet Extrusion ner Extrusion	Thermoforn	ning
riocessing	• I IUII LAU USIOII	• Oti	ICI EXTINZION		

Casting

• Asia Pacific

· Heat stabilized or stable

· South and Central America

· Profile Extrusion

· Light stabilized or stable

Pellets

Europe

to light

· North America

Processing Texts

Delivery form

Special characteristics

Regional Availability

Profile extrusion

PREPROCESSING

Drying temperature = 100°C Drying time, dehumidified dryer = 2-3 h Processing moisture content = <0.06%

PROCESSING

Melt temperature optimum = 225°C

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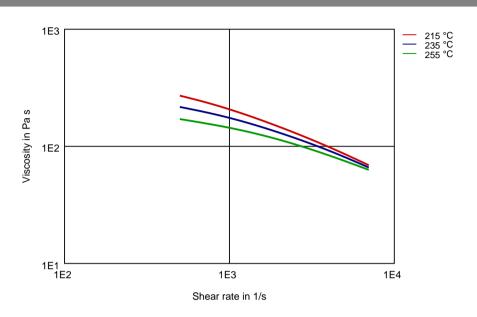


• Near East/Africa

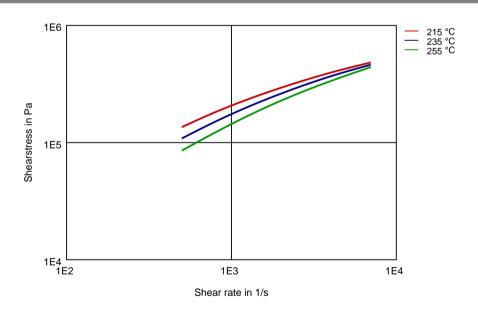
Global

Diagrams

Viscosity-shear rate



Shearstress-shear rate



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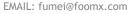
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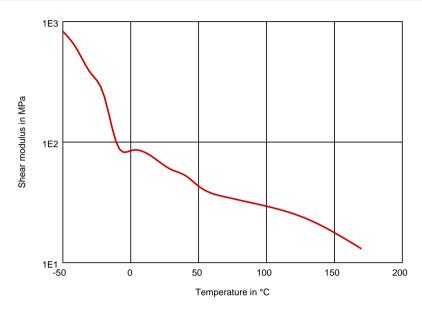
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Dynamic Shear modulus-temperature



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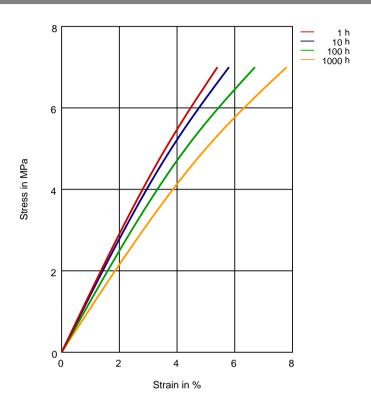
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Stress-strain (isochronous) 23°C



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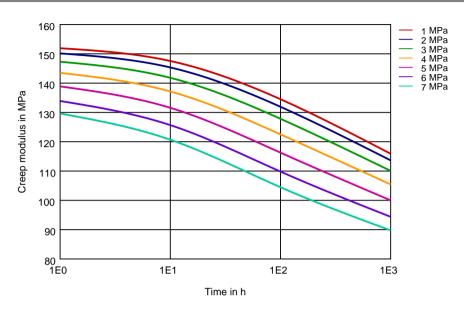
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Creep modulus-time 23°C



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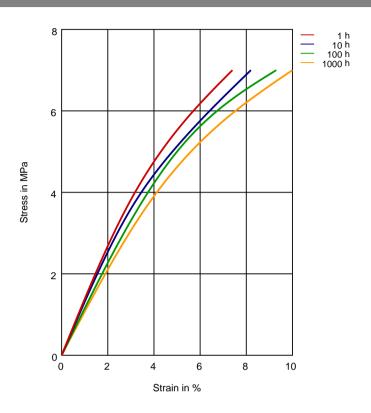
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Stress-strain (isochronous) 40°C



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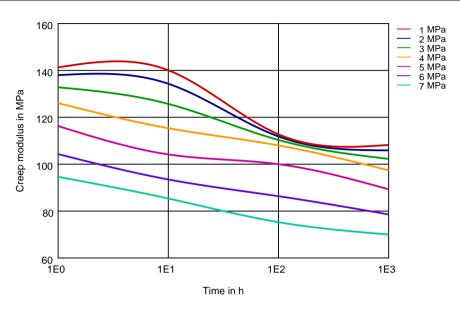
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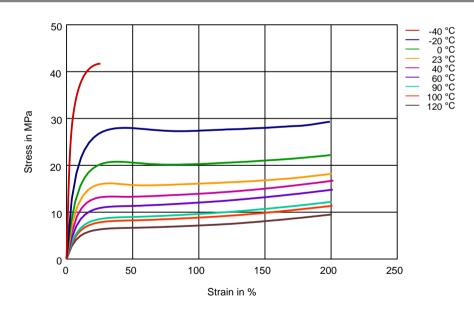
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Creep modulus-time 40°C



Stress-Strain (TPE)



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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)

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)

/ Motor oil OS206 304 Ref.Eng.Oil, ISP (135°C)

✓ Automatic hypoid-gear oil Shell Donax TX (135°C)

✓ Hydraulic oil Pentosin CHF 202 (125°C)

Standard Fuels

ISO 1817 Liquid 1 - E5 (60°C)

ISO 1817 Liquid 2 - M15E4 (60°C)

ISO 1817 Liquid 3 - M3E7 (60°C)

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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)

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)

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)



Hydrogen peroxide (23°C) DOT No. 4 Brake fluid (130°C)



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

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

North America Asia Pacific Europe/Middle East/Africa

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