PRODUCT INFORMATION

DuPont[™] Crastin[®] SO653 NC010 THERMOPLASTIC POLYESTER RESIN

Product Information

Common features of Crastin® thermoplastic polyester resin include mechanical and physical properties such as stiffness and toughness, heat resistance, friction and wear resistance, excellent surface finishes and good colourability. Crastin® thermoplastic polyester resin has excellent electrical insulation characteristics and high arc-resistant grades are available. Many flame retardant grades have UL recognition (class V-0). Crastin® thermoplastic polyester resin typically has high chemical and heat ageing resistance.

The good melt stability of Crastin® thermoplastic polyester 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 (-24 kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Crastin® thermoplastic polyester resin typically is used in demanding applications in the electronics, electrical, automotive, mechanical engineering, chemical, domestic appliances and sporting goods industry.

Crastin® SO653 NC010 is a 20% glass bead filled polybutylene terephthalate resin for injection molding. It has isotropic properties and low warpage characteristics.

General information	Value	Unit	Test Standard
Resin Identification	I DI ODZO	-	ISO 1043
Part Marking Code	PBT-GB20	-	ISO 11469
Rheological properties	Value	Unit	Test Standard
Moulding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.6	%	ISO 294-4, 2577
Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	3500	MPa	ISO 527-1/-2
Stress at break	47	MPa	ISO 527-1/-2
Strain at break	10	%	ISO 527-1/-2
Flexural Strength	90	MPa	ISO 178
Poisson's ratio	0.37	-	ISO 527-1/-2
Tensile creep modulus			ISO 899-1
1h	3500	MPa	
1000h	2400	MPa	
Charpy impact strength			ISO 179/1eU
23°C	40	kJ/m²	
-30° C	50	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
23°C	3.5	kJ/m²	
-30°C	3.5	kJ/m²	
Izod notched impact strength			ISO 180/1A
23°C	3.5	kJ/m²	
-30° C	4	kJ/m²	
Izod impact strength			ISO 180/1U
23°C	37	kJ/m²	
-30°C	34	kJ/m²	
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
1.8 MPa	65	°C	
0.45 MPa	165	°C	
Vicat softening temperature, 50°C/h, 50N	195	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
Thermal conductivity of melt	0.25	W/(m K)	-
Spec. heat capacity of melt		J/(kg K)	-

Revised: 2018-03-22

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RTI, electrical			UL 746B
0.75mm	120	°C	
1.5mm	120	°C	
3mm	120	°C	
6mm	120	°C	
RTI, impact			UL 746B
0.75mm	115	°C	
1.5mm	115	°C	
3mm	115	°C	
6mm	115	°C	
RTI, strength			UL 746B
0.75mm	120	°C	
1.5mm	120	°C	
3mm	120	°C	
6mm	120	°C	
Flammability	Value	Unit	Test Standard
Burning Behav. at 1.5mm 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	22	%	ISO 4589-1/-2
Glow Wire Flammability Index, 3mm	750	°C	IEC 60695-2-12
FMVSS Class	SE/B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	24	mm/min	ISO 3795 (FMVSS 302)
Electrical properties	Value	Unit	Test Standard
Relative permittivity			IEC 62631-2-1
Relative permittivity			
100Hz	4	-	
	4 3.7		
100Hz 1MHz			IEC 62631-2-1
100Hz	3.7		
100Hz 1MHz Dissipation factor	3.7	- E-4	
100Hz 1MHz Dissipation factor 100Hz	3.7 90 160	- E-4	
100Hz 1MHz Dissipation factor 100Hz 1MHz	3.7 90 160	- E-4 E-4	IEC 62631-2-1
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity	3.7 90 160 >1E13	- E-4 Ohm*m	IEC 62631-2-1 IEC 62631-3-1
100Hz 1MHz Dissipation factor 100Hz 10Hz 1MHz Volume resistivity Electric strength Comparative tracking index	3.7 90 160 >1E13 25 250	- E-4 Ohm*m kV/mm	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1
100Hz 1MHz Dissipation factor 100Hz 10Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm	3.7 90 160 >1E13 25 250	- E-4 E-4 Ohm*m kV/mm - kV/mm	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties	3.7 90 160 >1E13 25 250 17 Value	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1
100Hz 1MHz Dissipation factor 100Hz 10Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm	3.7 90 160 >1E13 25 250 17 Value	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm	3.7 90 160 >1E13 255 250 17 Value 0.2 0.35	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % %	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density	3.7 90 160 >1E13 255 250 17 Value 0.2 0.35	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62
100Hz 1MHz Dissipation factor 100Hz 10Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm	3.7 90 160 >1E13 255 250 17 Value 0.2 0.35 1450 1250	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate)	3.7 90 160 >1E13 255 250 17 Value 0.2 0.35 1450 1250 Value	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m3 kg/m3 Unit mg	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m3 kg/m3 Unit mg	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended	3.7 90 160 >1E13 255 250 17 Value 0.2 0.35 1450 1250 Value 0.1	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature	3.7 90 160 >1E13 255 250 177 Value 0.2 0.35 1450 1250 Value 0.1 Value yes ≥120	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer	3.7 90 160 >1E13 255 250 177 Value 0.2 0.35 1450 1250 Value 0.1 Value yes ≥120 2 - 4	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C h	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature	3.7 90 160 >1E13 255 250 177 Value 0.2 0.35 1450 1250 Value 0.1 Value yes ≥120	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum	3.7 90 160 >1E13 255 250 177 Value 0.2 0.35 1450 1250 Value 0.1 Value yes ≥120 2 - 4 ≤0.04 250	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C h % °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard - - -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Min. melt temperature	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value yes ≥120 2 - 4 ≤0.04	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C h % °C °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard - - - - -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Min. melt temperature Max. melt temperature	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value yes ≥120 2 - 4 ≤0.04 250 240	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C h % °C °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard - - - - -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Max. melt temperature Max. melt temperature Optimum	3.7 90 160 >1E13 25 250 177 Value 0.2 0.35 1450 1250 Value 0.1 Value 925 ≥120 2 - 4 ≤0.04 250 240 260 80	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C h % °C °C °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard - - - - - - - - -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Max. melt temperature Max. melt temperature Mold Temperature Min. mould temperature	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value yes ≥120 2 - 4 ≤0.04 250 240 260 80 30	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C h % °C °C °C °C °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard - - - - - - - - - - - - -
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength Comparative tracking index Electric Strength, 20s, 2mm Other properties Humidity absorption, 2mm Water absorption, 2mm Density Density of melt VDA Properties Fogging, G-value (condensate) Injection Drying Recommended Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Min. melt temperature Max. melt temperature Max. melt temperature Modd Temperature Optimum	3.7 90 160 >1E13 255 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value 250 2 - 4 ≤0.04 250 2 - 4 ≤0.04 250 240 260 80 30 130	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m ³ kg/m ³ Unit mg Unit - °C h % °C °C °C °C °C	IEC 62631-2-1 IEC 62631-3-1 IEC 60243-1 IEC 60112 IEC 60243-1 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard ISO 6452 Test Standard - - - - - - - - - - - - -

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Hold pressure time		3 s/mm	-	
Back pressure	As lov	v as possible	-	
Ejection temperature		170 °C	-	
Characteristics				
Processing	 Injection Moulding 			
Delivery form	Pellets			
Additives	Release agent			
Regional Availability	North America	 Asia Pacific 		 Near East/Africa
	 Europo 	South and Cont	ral Amorica	 Clobal

• Europe

South and Central America

Global

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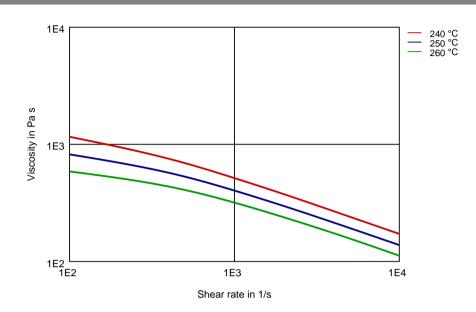
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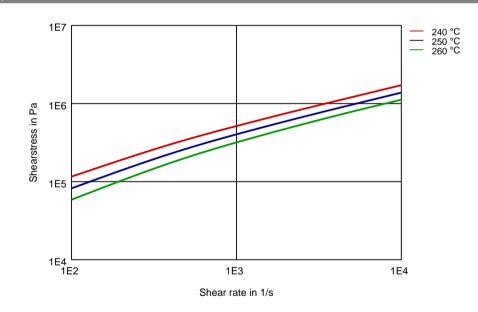
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Diagrams

Viscosity-shear rate



Shearstress-shear rate



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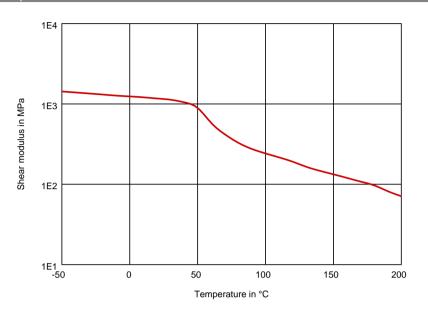
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Dynamic Shear modulus-temperature



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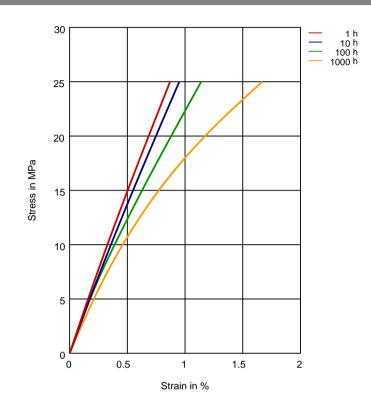
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Stress-strain (isochronous) 23°C



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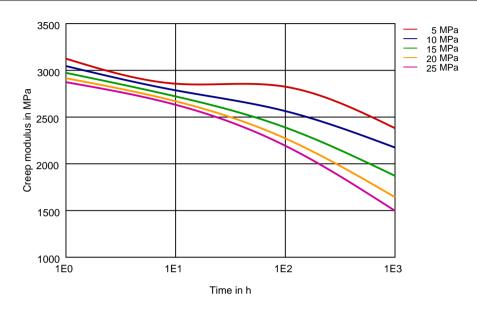
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Creep modulus-time 23°C



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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) 1 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 1 SAE 10W40 multigrade motor oil (23°C) Ŷ 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) XXXX 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: 2018-03-22 Page: 8 of 9

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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

- 1 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)
- XXX/ 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).

X 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 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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