### **PRODUCT INFORMATION**

# DuPont<sup>™</sup> Crastin<sup>®</sup> 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	PBT-GF20	-	ISO 1043
Part Marking Code	PBT-GF20		ISO 11469
Rheological properties	Value	Unit	Test Standard
Molding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Molding 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
Tensile creep modulus			ISO 899-1
1h	3500	MPa	
1000h	2400	MPa	
Charpy impact strength			ISO 179/1eU
73°F	40	kJ/m²	
-22°F	50	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
73°F	3.5	kJ/m²	
-22°F	3.5	kJ/m²	
Izod notched impact strength			ISO 180/1A
73°F	3.5	kJ/m²	
-22°F	4	kJ/m²	
Izod impact strength			ISO 180/1U
73°F	37	kJ/m²	
-22°F	34	kJ/m²	
Thermal properties	Value	Unit	Test Standard
Melting temperature, 18°F/min	225	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
260 psi	65	°C	
65 psi	165	°C	
Vicat softening temperature, 90° F/h, 11 lbf	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)	-
		,	

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			111 746P
RTI, electrical	420	° <b>с</b>	UL 746B
30mil	120	°C	
60mil	120	°C	
120mil	120	°C	
240mil	120	°C	
RTI, impact		° <b>с</b>	UL 746B
30mil	115	°C	
60mil	115	°C	
120mil	115	°C	
240mil	115	°C	
RTI, strength			UL 746B
30mil	120	°C	
60mil	120	°C	
120mil	120	°C	
240mil	120	°C	
Flammability	Value		Test Standard
Burning Behav. at 60mil nom. thickn.		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, 120mil	750	°C	IEC 60695-2-1/2
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
			IEC 60250
Relative permittivity			IEC 00200
Relative permittivity 100Hz	4	-	IEC 80250
	4 3.7		IEC 60250
100Hz			IEC 60250
100Hz 1MHz	3.7		
100Hz 1MHz Dissipation factor	<u>3.7</u> 90	-	
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 60250
100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Electric strength	3.7 90 160 >1E13	- E-4 Ohm*m	IEC 60250 IEC 60093
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 60250 IEC 60093 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 60250 IEC 60093 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	IEC 60250 IEC 60093 IEC 60243-1 IEC 60112 IEC 60243-1
100Hz         1MHz         Dissipation factor         100Hz         1MHz         Volume resistivity         Electric strength         Comparative tracking index         Electric Strength, 20s, 2mm         Other properties         Humidity absorption, 80mil	3.7 90 160 >1E13 25 250 17 Value	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit	IEC 60250 IEC 60093 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, 80mil         Water absorption, 80mil	3.7 90 160 >1E13 25 250 17 Value 0.2	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % %	IEC 60250 IEC 60093 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, 80mil         Water absorption, 80mil	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 <sup>3</sup>	IEC 60250 IEC 60093 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, 80mil         Water absorption, 80mil         Density         Density of melt	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 <sup>3</sup> kg/m <sup>3</sup>	IEC 60250 IEC 60093 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, 80mil         Water absorption, 80mil         Density         Density of melt         VDA Properties	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	IEC 60250 IEC 60093 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, 80mil         Water absorption, 80mil         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 0.1	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m3 kg/m3 Unit mg	IEC 60250         IEC 60093         IEC 60243-1         IEC 60243-1         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, 80mil         Water absorption, 80mil         Density         Density of melt         VDA Properties         Fogging, G-value (condensate)         Injection	3.7 90 160 >1E13 255 250 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 60250 IEC 60093 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, 80mil         Water absorption, 80mil         Density         Density of melt         VDA Properties         Fogging, G-value (condensate)         Injection         Drying Recommended	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value yes	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit -	IEC 60250         IEC 60093         IEC 60243-1         IEC 60243-1         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, 80mil         Water absorption, 80mil         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 <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C	IEC 60250         IEC 60093         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, 80mil         Water absorption, 80mil         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 <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h	IEC 60250         IEC 60093         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, 80mil         Water absorption, 80mil         Density         Density of melt         VDA Properties         Fogging, G-value (condensate)         Injection         Drying Recommended         Drying Temperature         Drying Time, Dehumidified Dryer         Processing Moisture Content	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	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h %	IEC 60250         IEC 60093         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, 80mil         Water absorption, 80mil         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 <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h % °C	IEC 60250         IEC 60093         IEC 60243-1         IEC 60243-1         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, 80mil         Water absorption, 80mil         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 ≤0.04 250 240	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h % °C °C	IEC 60250         IEC 60093         IEC 60243-1         IEC 60243-1         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, 80mil         Water absorption, 80mil         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 9 value 0.1 Value 2.4 ≤0.04 250 240 260	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h % °C °C °C	IEC 60250         IEC 60093         IEC 60243-1         IEC 60243-1         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, 80mil         Water absorption, 80mil         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         Max. melt temperature	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value 9 2.4 ≤0.04 250 2.40 260 80	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h % °C °C °C °C	IEC 60250         IEC 60293         IEC 60243-1         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, 80mil         Water absorption, 80mil         Density of melt         VDA Properties         Fogging, G-value (condensate)         Injection         Drying Recommended         Drying Temperature         Drying Tomperature         Processing Moisture Content         Melt Temperature Optimum         Min. melt temperature         Max. melt temperature         Mold Temperature         Max. molt temperature	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value 9 value 0.1 Value 2.4 ≤0.04 250 2.40 260 80 30	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h % °C °C °C °C °C	IEC 60250         IEC 60243-1         IEC 60243-1         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, 80mil         Water absorption, 80mil         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	3.7 90 160 >1E13 25 250 17 Value 0.2 0.35 1450 1250 Value 0.1 Value 0.1 1250 Value 0.2 4 ≤0.04 250 2.4 ≤0.04 250 240 260 80 30 30	- E-4 E-4 Ohm*m kV/mm - kV/mm Unit % % kg/m <sup>3</sup> kg/m <sup>3</sup> Unit mg Unit - °C h % °C °C °C °C °C °C	IEC 60250         IEC 60243-1         IEC 60243-1         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 low	as possible	-	
Ejection temperature		170 °C	-	
Characteristics				
Processing	<ul> <li>Injection Molding</li> </ul>			
Delivery form	Pellets			
Additives	<ul> <li>Release agent</li> </ul>			
Regional Availability	North America	<ul> <li>Asia Pacific</li> </ul>		<ul> <li>Near East/Africa</li> </ul>
	<ul> <li>Europo</li> </ul>	South and Contr	al Amorica	<ul> <li>Clobal</li> </ul>

• Europe

• South and Central America

Global

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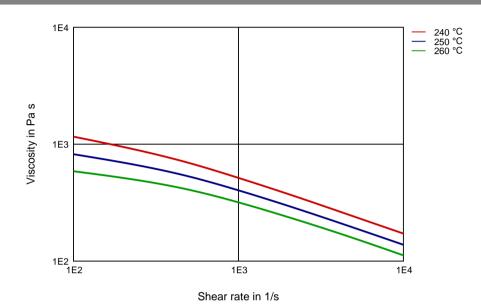


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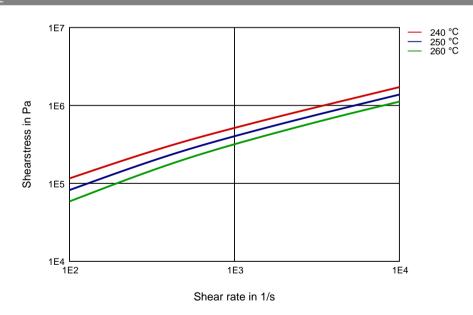
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Diagrams

Viscosity-shear rate



#### Shearstress-shear rate



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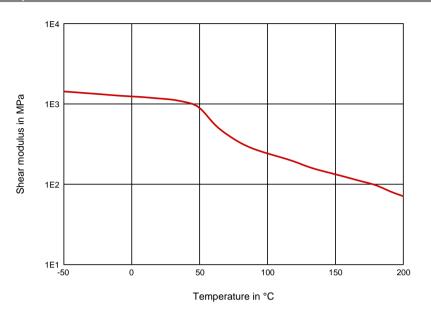
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Dynamic Shear modulus-temperature



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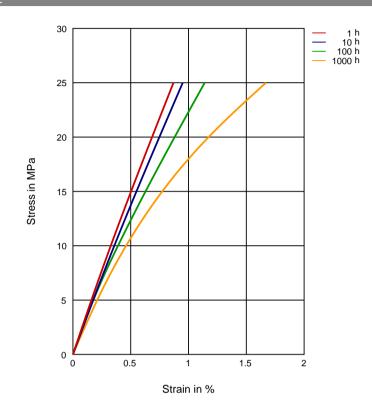
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Stress-strain (isochronous) 23°C



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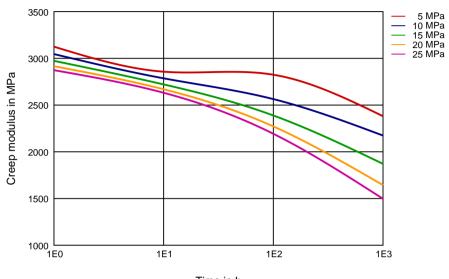
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Creep modulus-time 23°C



Time in h

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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: 2016-08-18 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

- 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

<b>\</b>	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).

### 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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