#### Product Information

Common features of Delrin® acetal resins include mechanical and physical properties such as high mechanical strength and rigidity, excellent fatigue and impact resistance, as well as resistance to moisture, gasoline, lubricants, solvents, and many other neutral chemicals. Delrin® acetal resins also have excellent dimensional stability and good electrical insulating characteristics. They are naturally resilient, self-lubricating, and available in a variety of colors and speciality grades.

Delrin® acetal resin typically is used in demanding applications in the automotive, domestic appliances, sports, industrial engineering, electronics, and consumer goods industries.

Delrin® 900P is a general purpose low viscosity acetal homopolymer for multicavity and thin wall moulding with improved processing thermal stability and low VOC emissions.

General information	Value	Unit	Test Standard
Resin Identification	POM	-	ISO 1043
Part Marking Code	POM	-	ISO 11469
Rheological properties	Value	Unit	Test Standard
Melt volume-flow rate	21	cm <sup>3</sup> /10min	ISO 1133
Temperature	190	°C	ISO 1133
Load	2.16	kg	ISO 1133
Melt mass-flow rate	25	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	°C	ISO 1133
Melt mass-flow rate, Load	2.16	kg	ISO 1133
Moulding shrinkage, parallel	1.9	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.9	%	ISO 294-4, 2577
Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	3200	MPa	ISO 527-1/-2
Yield stress	71	MPa	ISO 527-1/-2
Yield strain	12	%	ISO 527-1/-2
Nominal strain at break	23	%	ISO 527-1/-2
Flexural Modulus	3000	MPa	ISO 178
Tensile creep modulus			ISO 899-1
1h	2800	MPa	
1000h	1500	MPa	
Charpy impact strength			ISO 179/1eU
23°C	200	kJ/m²	
-30°C	200	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
23°C	7.5	kJ/m²	
-30°C	6.5	kJ/m²	
Izod notched impact strength			ISO 180/1A
23°C	7	kJ/m²	
40°C	8	kJ/m²	
Ball indentation hardness, H 961/30		MPa	ISO 2039-1
Hardness, Rockwell, M-scale	92	-	ISO 2039-2
Hardness, Rockwell, R-scale	120	-	ISO 2039-2
Coefficient of sliding friction, 1h against itself	0.25	-	ASTM 1894
Thermal properties	Value		Test Standard
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
1.8 MPa	94	°C	
0.45 MPa	162	°C	
Vicat softening temperature, 50°C/h, 50N	160	°C	ISO 306
Coeff. of linear therm. expansion, parallel	120	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion			
normal		E-6/K	ISO 11359-1/-2
Parallel, 23-55°C(73-130°F)		E-6/K	ASTM E 831
Eff. thermal diffusivity	8E-8	m²/s	-

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RTI, electrical			UL 746B
0.75mm	50	°C	
1.5mm	110	°C	
3mm	110	°C	
RTI, impact	-	-	UL 746B
0.75mm	50	°C	
1.5mm	85	°C	
3mm	90	°Č	
RTI, strength	,,,		UL 746B
0.75mm	50	°C	<b>01</b> 05
1.5mm	90	°Č	
3mm	95	°Č	
Flammability	Value		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	0.8	mm	IEC 60695-11-10
UL recognition	yes	-	UL 94
Oxygen index	23	%	ISO 4589-1/-2
Glow Wire Flammability Index		70	IEC 60695-2-12
1mm	550	°C	IEC 00073-2-12
2mm	550	°C	
3mm	550	°C	
Hot Wire Ignition, 0.75mm	8 <sup>[1]</sup>	s	UL 746A
FMVSS Class	В	5	ISO 3795 (FMVSS 302)
	20	mm/min	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm 1: 0.75mm	20	111111/111111	13O 3793 (FMV33 302)
1. 0.7 311111			
Floridad consider	Mal a	11.2	Taut Chandaul
Electrical properties	Value	Unit	Test Standard
Relative permittivity			Test Standard IEC 62631-2-1
Relative permittivity 100Hz	3.8	-	
Relative permittivity 100Hz 1MHz	3.8 3.8	-	IEC 62631-2-1
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz	3.8 3.8 50	- - E-4	IEC 62631-2-1
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity	3.8 3.8 50 1E12	- - E-4 Ohm*m	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity	3.8 3.8 50 1E12 >1E15	- E-4 Ohm*m	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index	3.8 3.8 50 1E12 >1E15 600	- - E-4 Ohm*m	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60112
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties	3.8 3.8 50 1E12 >1E15 600 Value	- E-4 Ohm*m Ohm	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60112 Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm	3.8 3.8 50 1E12 >1E15 600 Value 0.4	- E-4 Ohm*m Ohm - Unit	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60112 Test Standard Sim. to ISO 62
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4	- E-4 Ohm*m Ohm - Unit %	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420	- E-4 Ohm*m Ohm - Unit % kg/m³	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value	- E-4 Ohm*m Ohm - Unit % kg/m³ Unit	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8	- E-4 Ohm*m Ohm - Unit % kg/m³ Unit mg/kg	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction)	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8	- E-4 Ohm*m Ohm - Unit % kg/m³ Unit mg/kg %	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate)	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2	- E-4 Ohm*m Ohm - Unit % kg/m³ Unit mg/kg % mg	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value	- E-4 Ohm*m Ohm - Unit % kg/m³ Unit mg/kg % mg Unit	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes	- E-4 Ohm*m Ohm - Unit % kg/m³ Unit mg/kg % mg Unit	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard  -
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard  -
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 - 4	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 - 4 ≤0.2	- E-4 Ohm*m Ohm - Unit % kg/m³ Unit mg/kg % mg Unit - °C h	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 - 4 ≤0.2 215	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C h %	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 - 4 ≤0.2 215 210	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C h % °C	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Max. melt temperature	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 - 4 ≤0.2 215 210 220	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C h % °C °C °C	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) Fogging, G-value (condensate) Injection Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Max. melt temperature Max. melt temperature Mold Temperature Optimum Min. met temperature Max. melt temperature	3.8 3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 - 4 ≤0.2 215 210 220 90	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C h % °C °C °C	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) 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 Mold Temperature Optimum Min. mould temperature	3.8 3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 · 4 ≤0.2 215 210 220 90 80	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C h % °C °C °C °C	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) 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 Mold Temperature Optimum Min. mould temperature Max. mould temperature Max. mould temperature	3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 - 4 ≤0.2 215 210 220 90 80 100	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C h % °C °C °C °C °C	IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard
Relative permittivity 100Hz 1MHz Dissipation factor, 1MHz Volume resistivity Surface resistivity Comparative tracking index Other properties Humidity absorption, 2mm Water absorption, 2mm Density VDA Properties Emissions Fogging, F-value (refraction) 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 Mold Temperature Optimum Min. mould temperature	3.8 3.8 3.8 50 1E12 >1E15 600 Value 0.4 1.4 1420 Value <8 95 0.2 Value yes ≥80 2 · 4 ≤0.2 215 210 220 90 80	E-4 Ohm*m Ohm - Unit % % kg/m³ Unit mg/kg % mg Unit - °C h % °C °C °C °C	IEC 62631-2-1  IEC 62631-2-1  IEC 62631-3-1  IEC 62631-3-2  IEC 60112  Test Standard  Sim. to ISO 62  Sim. to ISO 62  ISO 1183  Test Standard  VDA 275  ISO 6452  ISO 6452  Test Standard

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Hold pressure time	8	s/mm	-
Annealing time, optional	30	min/mm	-
Annealing temperature	160	°C	-

Characteristics			
Processing	<ul> <li>Injection Moulding</li> </ul>		
Delivery form	<ul> <li>Pellets</li> </ul>		
Additives	Lubricants	Release agent	
Dogional Availability	North America	Asia Pacific	Near East/Africa
Regional Availability	<ul> <li>Europe</li> </ul>	<ul> <li>South and Central America</li> </ul>	<ul> <li>Global</li> </ul>

### Processing Texts

### Injection molding

Drying is recommended, but not necessary for newly opened packaging stored in a dry location.

Follow the drying guidelines above in the following cases:

- · If moisture is above the Processing Moisture Content recommendation,
- · When a resin container is damaged,
- $\cdot$  When the material is not properly stored in a dry place at room temperature, or
- $\cdot$  When packaging stays open for a significant time.

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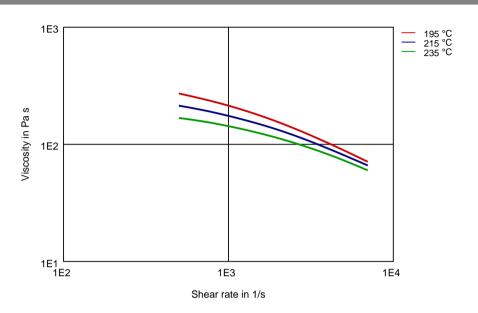
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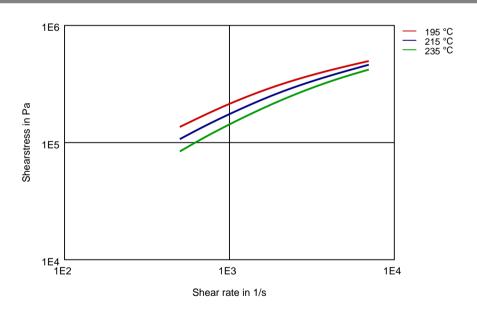


### Diagrams

### Viscosity-shear rate



### Shearstress-shear rate



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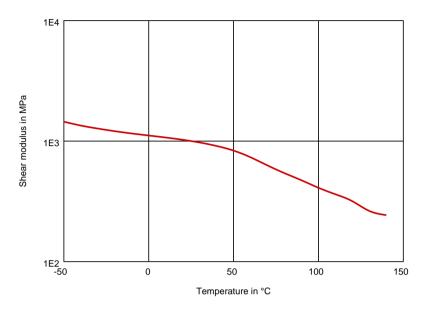
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### Dynamic Shear modulus-temperature



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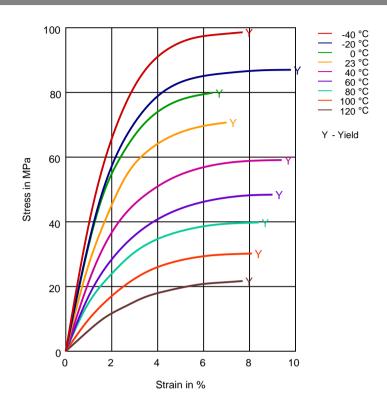
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Stress-strain



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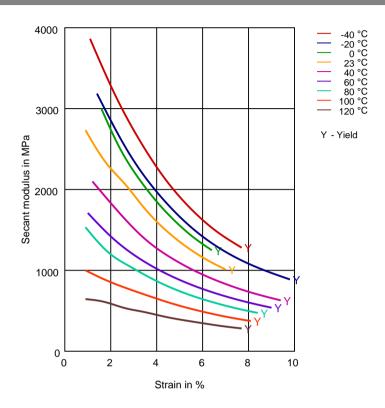
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Secant modulus-strain



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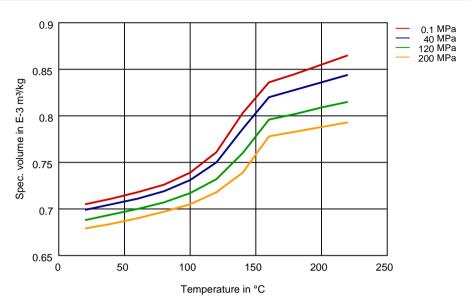
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Tel: +41 22 717 51 11



Specific volume-temperature (pvT)



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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)

Trydrocitionic Acid (50% by mass) (25

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)

### 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)

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**QUPONT** 

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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)

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)

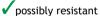


Water (23°C) Water (90°C)



Phenol solution (5% by mass) (23°C)

### Symbols used:



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 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.

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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Revised: 2018-03-23 To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

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